EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	93	(540/462,549/270,560/51,568/449).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/13 12:31
L2	19	L1 AND EPOTHILONE	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/08/13 12:31

cl 11

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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAY 01	New CAS web site launched
NEWS 3	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 4	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 5	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 6	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 7	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 8	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 9	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 10	JUN 29	STN Viewer now available
NEWS 11	JUN 29	STN Express, Version 8.2, now available
NEWS 12	JUL 02	LEMBASE coverage updated
NEWS 13	JUL 02	LMEDLINE coverage updated
NEWS 14	JUL 02	SCISEARCH enhanced with complete author names
NEWS 15	JUL 02	CHEMCATS accession numbers revised
NEWS 16	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 17	JUL 16	CAplus enhanced with French and German abstracts
NEWS 18	JUL 18	CA/CAplus patent coverage enhanced
NEWS 19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 20	JUL 30	USGENE now available on STN
NEWS 21	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 22	AUG 06	BEILSTEIN updated with new compounds
NEWS 23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 24	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:19:07 ON 13 AUG 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:19:20 ON 13 AUG 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 AUG 2007 HIGHEST RN 944447-30-7
DICTIONARY FILE UPDATES: 12 AUG 2007 HIGHEST RN 944447-30-7

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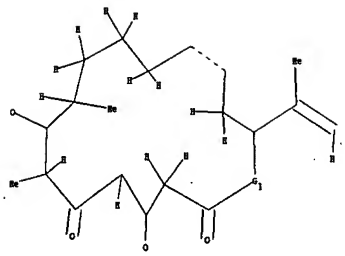
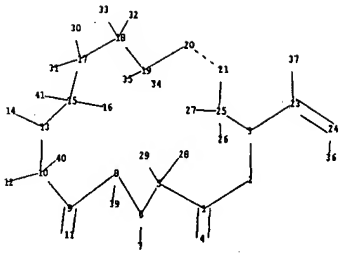
http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10538200a.str





chain nodes :
4 7 11 12 14 16 23 24 26 27 28 29 30 31 32 33 34 35 36 37 39
40 41
ring nodes :
1 2 3 5 6 8 9 10 13 15 17 18 19 20 21 25
chain bonds :
1-4 3-23 5-28 5-29 6-7 8-39 9-11 10-12 10-40 13-14 15-16 15-41 17-30
17-31 18-32 18-33 19-34 19-35 23-24 23-37 24-36 25-26 25-27
ring bonds :
1-2 1-5 2-3 3-25 5-6 6-8 8-9 9-10 10-13 13-15 15-17 17-18 18-19 19-20
20-21 21-25
exact/norm bonds :
1-2 1-4 1-5 2-3 3-23 3-25 5-6 5-28 5-29 6-7 6-8 8-9 8-39 9-10 9-11
10-12 10-13 10-40 13-14 13-15 15-16 15-17 15-41 17-18 17-30 17-31 18-19
18-32 18-33 19-20 19-34 19-35 20-21 21-25 23-24 23-37 24-36 25-26 25-27
isolated ring systems :
containing 1 :

G1:O,N

Match level :
1:Atom 2:Atom 3:Atom 4:CLASS 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:Atom 14:CLASS 15:Atom 16:CLASS 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 23:CLASS 24:CLASS 25:Atom 26:CLASS 27:CLASS 28:CLASS
29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS
37:CLASS 39:CLASS 40:CLASS 41:CLASS

L1 STRUCTURE UPLOADED

=>
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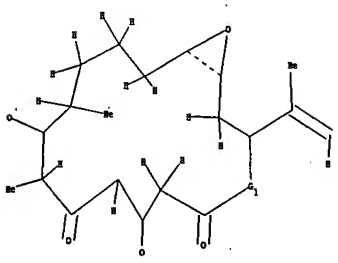
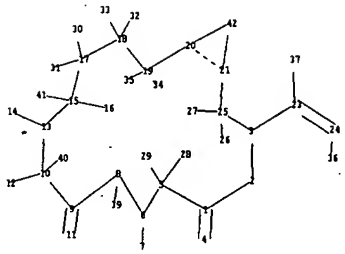




chain nodes :
4 7 11 12 14 16 23 24 26 27 28 29 30 31 32 33 34 35 36 37 39
40 41
ring nodes :
1 2 3 5 6 8 9 10 13 15 17 18 19 20 21 25 42
chain bonds :
1-4 3-23 5-28 5-29 6-7 8-39 9-11 10-12 10-40 13-14 15-16 15-41 17-30
17-31 18-32 18-33 19-34 19-35 23-24 23-37 24-36 25-26 25-27

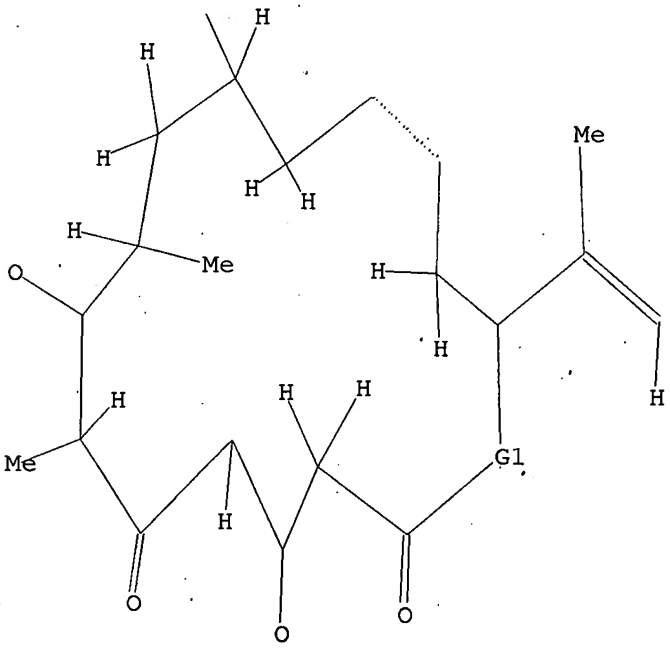
ring bonds :
1-2 1-5 2-3 3-25 5-6 6-8 8-9 9-10 10-13 13-15 15-17 17-18 18-19 19-20
20-21 20-42 21-25 21-42
exact/norm bonds :
1-2 1-4 1-5 2-3 3-23 3-25 5-6 5-28 5-29 6-7 6-8 8-9 8-39 9-10 9-11
10-12 10-13 10-40 13-14 13-15 15-16 15-17 15-41 17-18 17-30 17-31 18-19
18-32 18-33 19-20 19-34 19-35 20-21 20-42 21-25 21-42 23-24 23-37 24-36
25-26 25-27
isolated ring systems :
containing 1 :

G1:O,N

Match level :
1:Atom 2:Atom 3:Atom 4:CLASS 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:Atom 14:CLASS 15:Atom 16:CLASS 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 23:CLASS 24:CLASS 25:Atom 26:CLASS 27:CLASS 28:CLASS
29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS
37:CLASS 39:CLASS 40:CLASS 41:CLASS 42:Atom

L2 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 O,N

Structure attributes must be viewed using STN Express query preparation.

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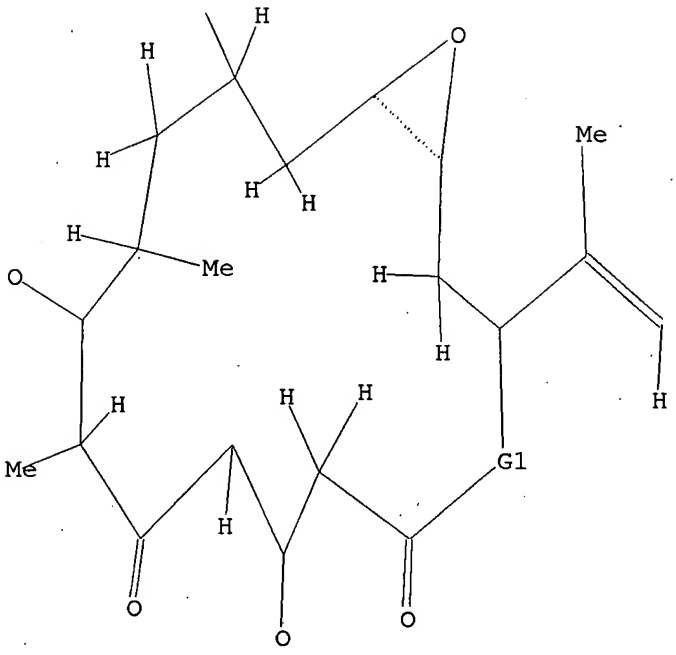
L2 HAS NO ANSWERS
L2 STR



G1 O,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 10:20:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 56309 TO ITERATE

100.0% PROCESSED 56309 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

L3 14 SEA SSS FUL L1

=> s l2 full
FULL SEARCH INITIATED 10:20:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1862 TO ITERATE

100.0% PROCESSED 1862 ITERATIONS 9 ANSWERS
SEARCH TIME: 00.00.01

L4 9 SEA SSS FUL L2

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	344.65	344.86

FILE 'CAPLUS' ENTERED AT 10:20:57 ON 13 AUG 2007
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FILE LAST UPDATED: 12 Aug 2007 (20070812/ED)

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=> s l3 full
L5 3 L3

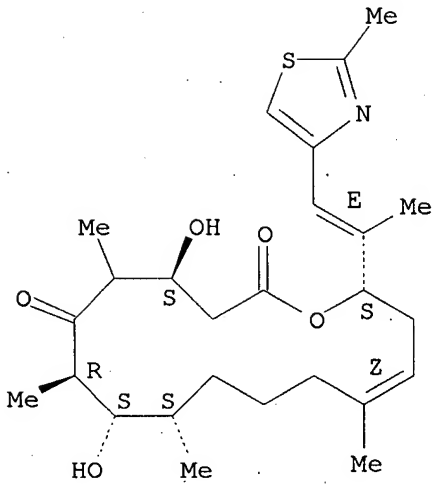
=> d ibib abs hitstr tot

L5 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:460208 CAPLUS
DOCUMENT NUMBER: 143:171398
TITLE: Production of epothilones derivatives in Myxococcus or Sorangium comprising PKS mutant gene
INVENTOR(S): Qiu, Rongguo
PATENT ASSIGNEE(S): Beijing Huahao Zhongtian Biotechnology Co., Ltd., Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, No pp. given
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1521258	A	20040818	CN 2003-103031	20030128
PRIORITY APPLN. INFO.:			CN 2003-103031	20030128

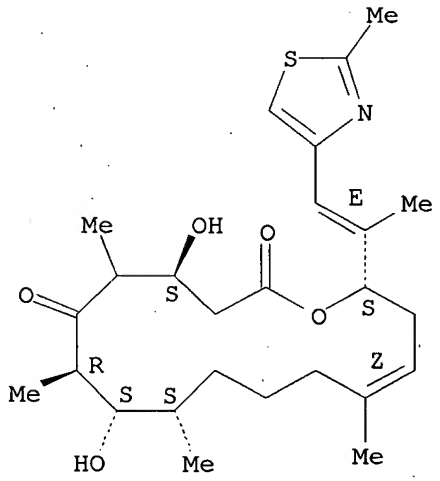
OTHER SOURCE(S): CASREACT 143:171398; MARPAT 143:171398
AB Described is a method for production of epothilones derivs. in Myxococcus or Sorangium comprising PKS mutant gene. The invention also relates to the uses of these compds. in preparing medicine composition for treating tumor, inhibiting cell proliferation and growth.
IT 252917-35-4P 252917-37-6P 860300-23-8P
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(production of epothilones derivs. in Myxococcus or Sorangium comprising PKS mutant gene)
RN 252917-35-4 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



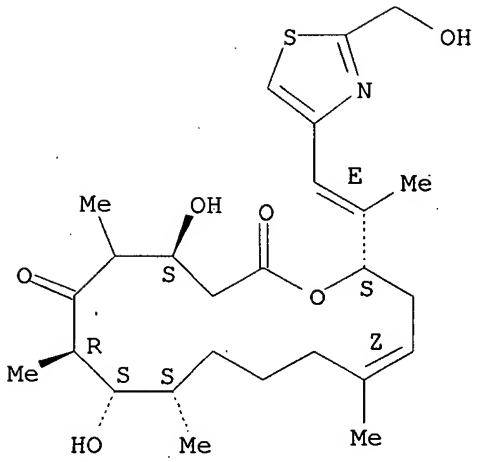
RN 252917-37-6 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



RN 860300-23-8 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-16-[(1E)-2-[2-(hydroxymethyl)-4-thiazolyl]-1-methylethenyl]-5,7,9,13-tetramethyl-, (4S,7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

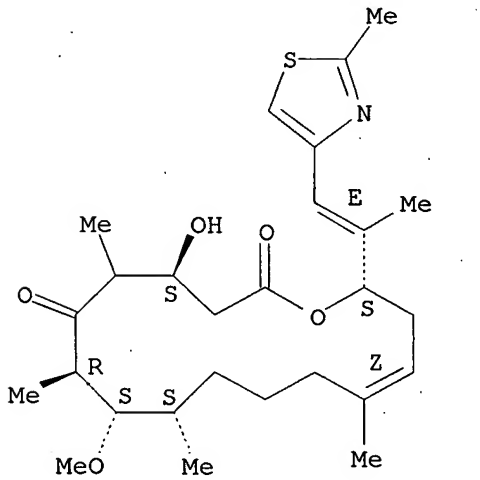


IT 860300-09-0P 860300-14-7P 860300-16-9P
860300-17-0P 860300-18-1P 860300-20-5P
860300-26-1P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(production of epothilones derivs. in Myxococcus or Sorangium comprising PKS mutant gene)

RN 860300-09-0 CAPLUS

CN Oxacyclohexadec-13-ene-2,6-dione, 4-hydroxy-8-methoxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

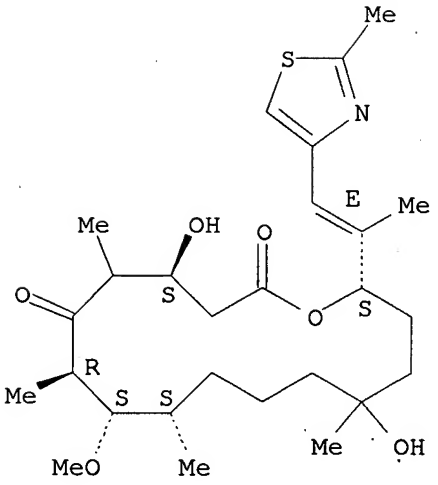
Absolute stereochemistry.
Double bond geometry as shown.



RN 860300-14-7 CAPLUS

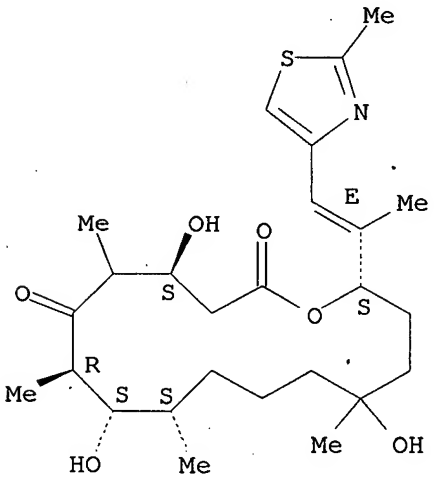
CN Oxacyclohexadecane-2,6-dione, 4,13-dihydroxy-8-methoxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



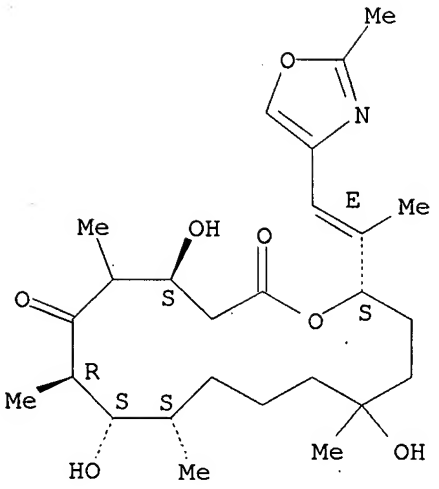
RN 860300-16-9 CAPLUS
CN Oxacyclohexadecane-2,6-dione, 4,8,13-trihydroxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



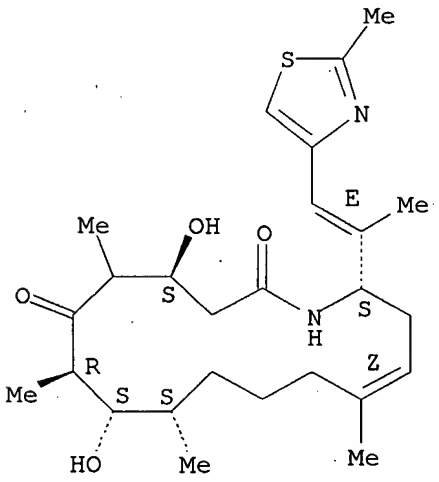
RN 860300-17-0 CAPLUS
CN Oxacyclohexadecane-2,6-dione, 4,8,13-trihydroxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-oxazolyl)ethenyl]-, (4S,7R,8S,9S,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



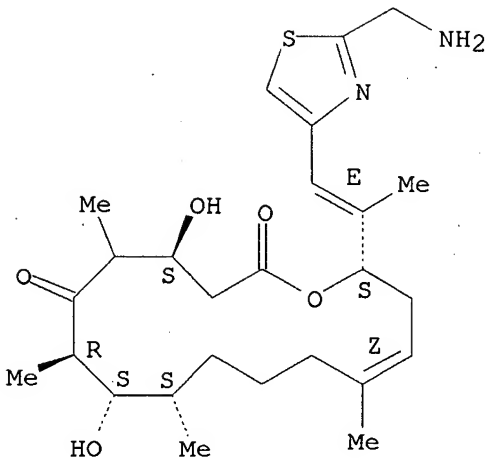
RN 860300-18-1 CAPLUS
CN Azacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



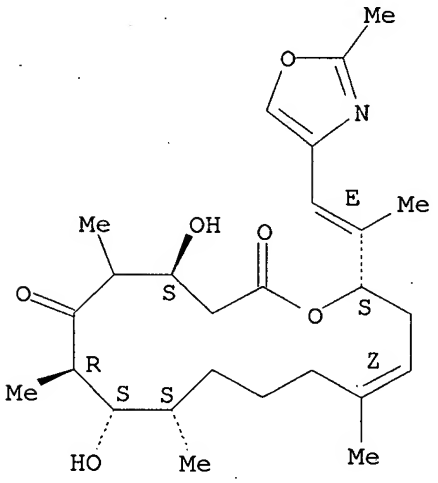
RN 860300-20-5 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 16-[(1E)-2-[2-(aminomethyl)-4-thiazolyl]-1-methylethenyl]-4,8-dihydroxy-5,7,9,13-tetramethyl-, (4S,7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 860300-26-1 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-oxazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:413810 CAPLUS
DOCUMENT NUMBER: 135:179755
TITLE: New Natural Epothilones from Sorangium cellulosum, Strains So ce90/B2 and So ce90/D13: Isolation, Structure Elucidation, and SAR Studies
AUTHOR(S): Hardt, Ingo H.; Steinmetz, Heinrich; Gerth, Klaus; Sasse, F.; Reichenbach, Hans; Hoefle, Gerhard
CORPORATE SOURCE: Gesellschaft fuer Biotechnologische Forschung mbH, Braunschweig, D-38124, Germany
SOURCE: Journal of Natural Products (2001), 64(7), 847-856
CODEN: JNPRDF; ISSN: 0163-3864
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB In addition to epothilones A (1) and B (2), 37 natural epothilone variants

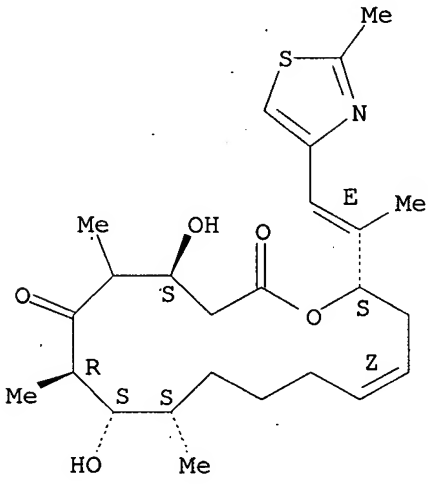
and epothilone-related compds. were isolated from the culture broth of a 700 L fermentation of Sorangium cellulosum, strain So ce90/B2. Of these, only the 12,13-desoxyepothilones, epothilone C (14) and D (15), were produced in significant amts. (3-6 mg/L); the 21-hydroxy derivs. and epothilones E (3) and F (4), in low and variable amts. due to further degradation by the producing organism. Most of the other epothilone variants were produced only in 1-100 μg/L amts. The new compds. are very similar in structure to the parent compds. 1, 2 and 14, 15 and are presumably the result of the imperfect selectivity of the biosynthetic enzymes for acetate and propionate. Further, epothilones containing an oxazole moiety (10-13) in the side chain instead of a thiazole as well as ring-expanded 18-membered macrolides, epothilones I (30-35), and a ring contracted 14-membered macrolide, epothilone K (36), were found as very minor metabolites. The mutant strain, So ce90/D13, instead of macrolactones, produced short-chain carboxylic acids 40, 41, and 42 bearing the characteristic thiazole side chain. The structures of the new epothilones were elucidated on the basis of comprehensive NMR and MS data. The new epothilone variants were tested in a cytotoxicity assay with mouse fibroblasts (cell line L929), and structure-activity relationships were established. Several new natural epothilones showed activity comparable to 1 and 2, but in no case exceeded that of 2.

IT 252917-34-3P, Epothilone C1 252917-35-4P, Epothilone D1
252917-36-5P, Epothilone C2 252917-37-6P, Epothilone D2
252917-48-9P, trans-Epothilone C1 252917-49-0P,
trans-Epothilone C2
RL: BPN (Biosynthetic preparation); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
(new natural epothilones from Sorangium cellulosum)

RN 252917-34-3 CAPLUS

CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9-trimethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.

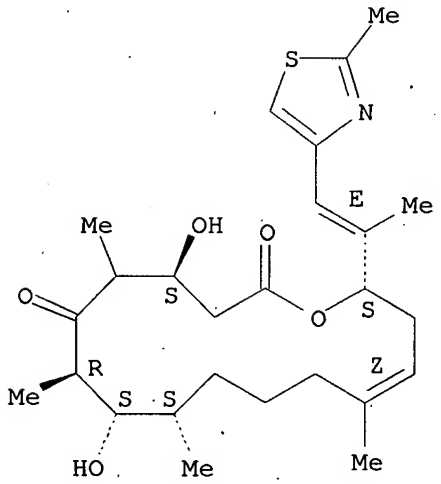


RN 252917-35-4 CAPLUS

CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

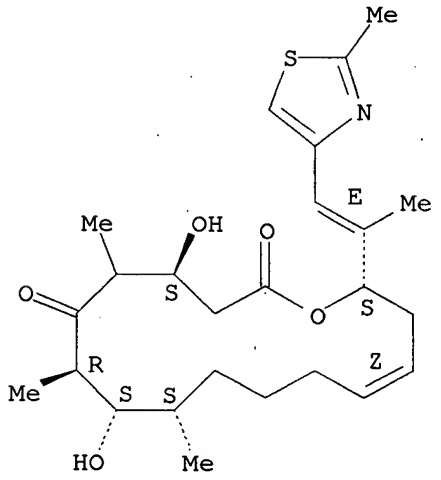
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.

Currently available stereo shown.



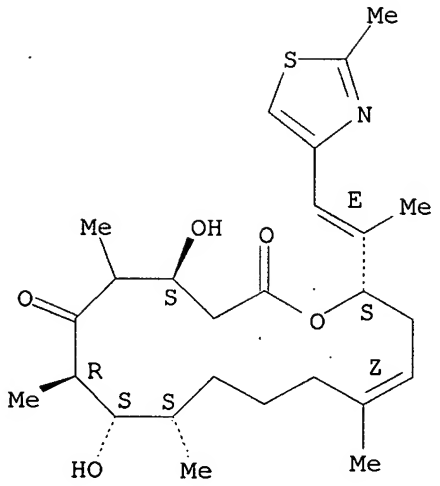
RN 252917-36-5 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9-trimethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



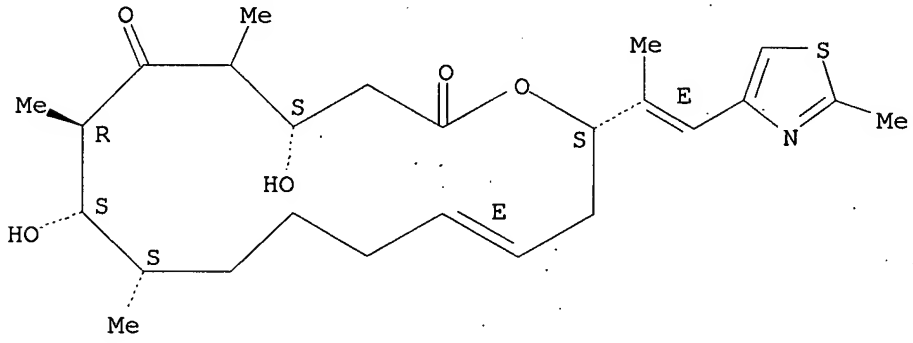
RN 252917-37-6 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



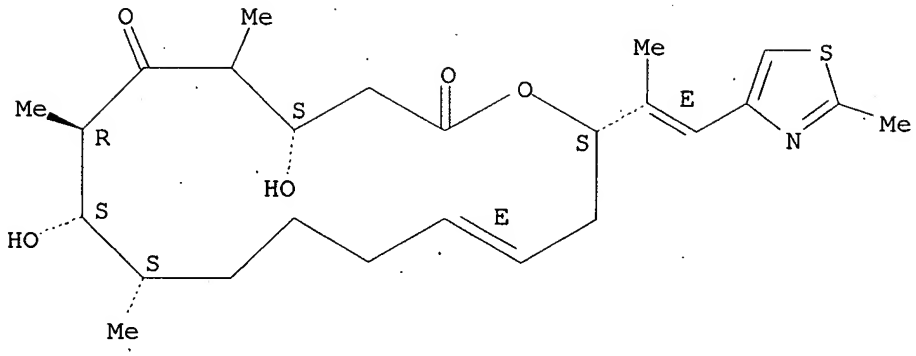
RN 252917-48-9 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9-trimethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13E,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



RN 252917-49-0 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9-trimethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13E,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:811249 CAPLUS
DOCUMENT NUMBER: 132:49105
TITLE: Epothilone minor constituents
INVENTOR(S): Hoefle, Gerhard; Reichenbach, Hans; Gerth, Klaus; Hardt, Ingo; Sasse, Florenz; Steinmetz, Heinrich
PATENT ASSIGNEE(S): Gesellschaft Fur Biotechnologische Forschung m.b.H. (Gbf), Germany
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9965913	A2	19991223	WO 1999-EP4244	19990618
WO 9965913	A3	20000420		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19826988	A1	19991223	DE 1998-19826988	19980618
CA 2336189	A1	19991223	CA 1999-2336189	19990618
AU 9948995	A	20000105	AU 1999-48995	19990618
AU 757452	B2	20030220		
EP 1087975	A2	20010404	EP 1999-932700	19990618
EP 1087975	B1	20030827		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002518397	T	20020625	JP 2000-554738	19990618
EP 1275648	A1	20030115	EP 2002-22332	19990618
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
AT 248174	T	20030915	AT 1999-932700	19990618
PT 1087975	T	20040130	PT 1999-932700	19990618
ES 2207249	T3	20040516	ES 1999-932700	19990618
US 6624310	B1	20030923	US 2001-719932	20010321
US 2004049051	A1	20040311	US 2003-457098	20030606
US 2006142584	A1	20060629	US 2006-354769	20060215

US 7235669 B2 20070626

PRIORITY APPLN. INFO.:

DE 1998-19826988	A 19980618
EP 1999-932700	A3 19990618
WO 1999-EP4244	W 19990618
US 2001-719932	A3 20010321
US 2003-457098	A1 20030606

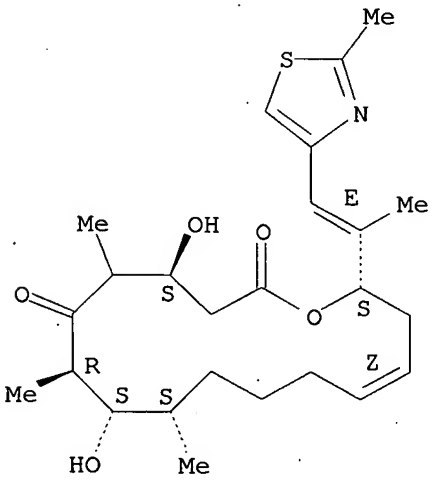
AB The invention relates to compds. which are obtained by fermenting DSM 6773, especially epothilones A1, A2, A8, A9, B10, C1, C2, C3, C4, C5, C6, C7, C8, C9, D1, D2, D5, G1, G2, H1, H2, I1, I2, I3, I4, I5, I6 and K and trans-epothilones C1 and C2.

IT 252917-34-3P, Epothilone C1 252917-35-4P, Epothilone D1
252917-36-5P, Epothilone C2 252917-37-6P, Epothilone D2
252917-48-9P, trans-Epothilone C1 252917-49-0P,
trans-Epothilone C2
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(epothilone minor constituents)

RN 252917-34-3 CAPLUS

CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9-trimethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

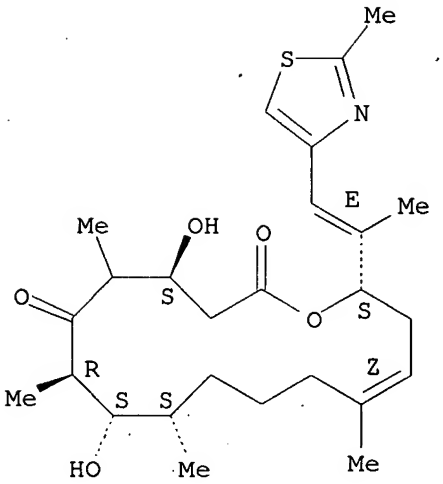
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



RN 252917-35-4 CAPLUS

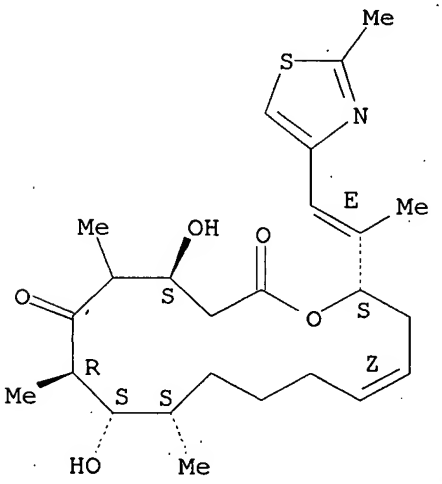
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



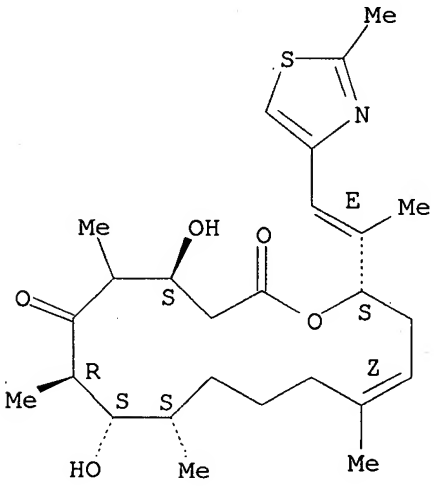
RN 252917-36-5 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9-trimethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



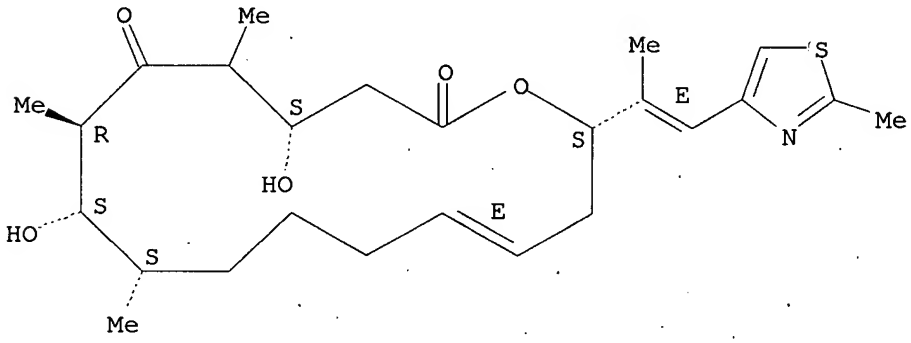
RN 252917-37-6 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9,13-tetramethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13Z,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



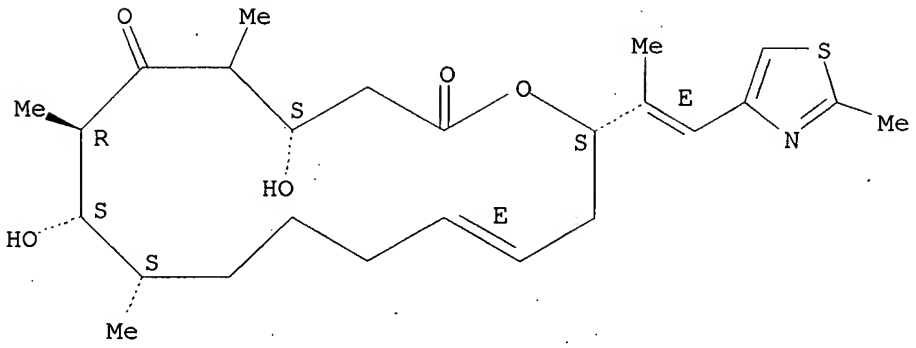
RN 252917-48-9 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9-trimethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13E,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



RN 252917-49-0 CAPLUS
CN Oxacyclohexadec-13-ene-2,6-dione, 4,8-dihydroxy-5,7,9-trimethyl-16-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (4S,7R,8S,9S,13E,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



=> s l4 full
L6 6 L4

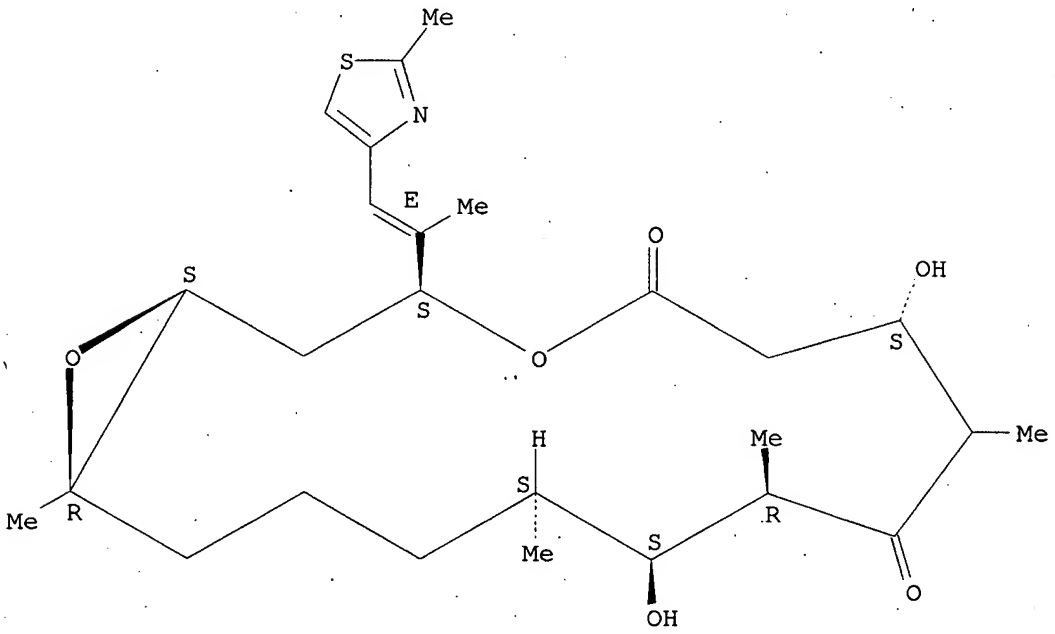
=> d ibib abs hitstr tot

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2005:460208 CAPLUS
DOCUMENT NUMBER: 143:171398
TITLE: Production of epothilones derivatives in Myxococcus or Sorangium comprising PKS mutant gene
INVENTOR(S): Qiu, Rongguo
PATENT ASSIGNEE(S): Beijing Huahao Zhongtian Biotechnology Co., Ltd., Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, No pp. given
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1521258	A	20040818	CN 2003-103031	20030128
PRIORITY APPLN. INFO.:			CN 2003-103031	20030128

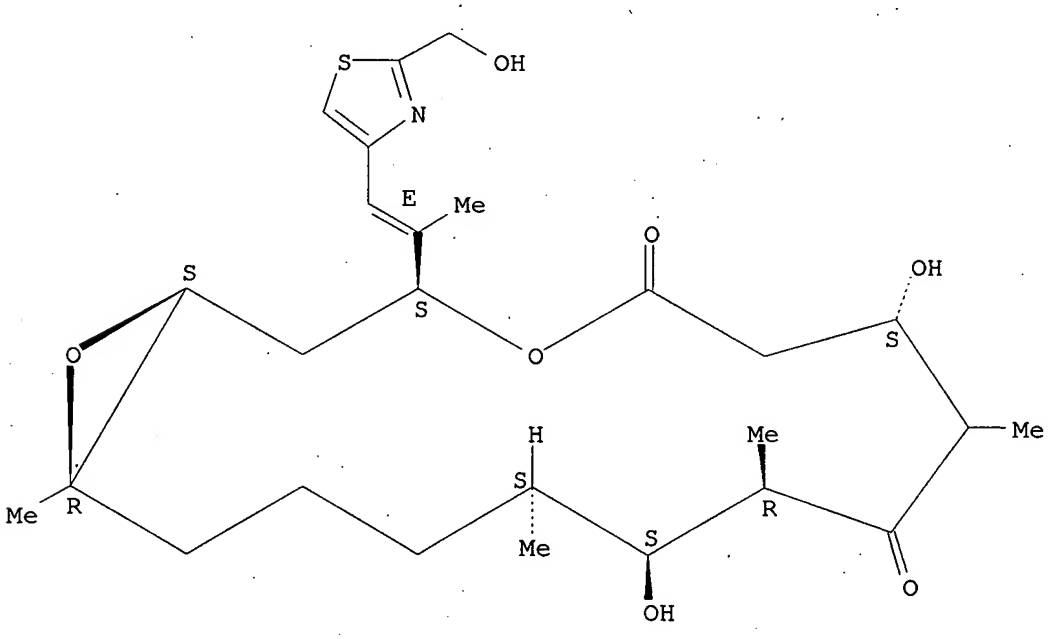
OTHER SOURCE(S): CASREACT 143:171398; MARPAT 143:171398
AB Described is a method for production of epothilones derivs. in Myxococcus or Sorangium comprising PKS mutant gene. The invention also relates to the uses of these compds. in preparing medicine composition for treating tumor, inhibiting cell proliferation and growth.
IT 502619-65-0P 860300-22-7P
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(production of epothilones derivs. in Myxococcus or Sorangium comprising PKS mutant gene)
RN 502619-65-0 CAPLUS
CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-8,10,12,16-tetramethyl-3-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (1S,3S,7S,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 860300-22-7 CAPLUS
CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-3-[(1E)-2-[2-(hydroxymethyl)-4-thiazolyl]-1-methylethenyl]-8,10,12,16-tetramethyl-, (1S,3S,7S,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

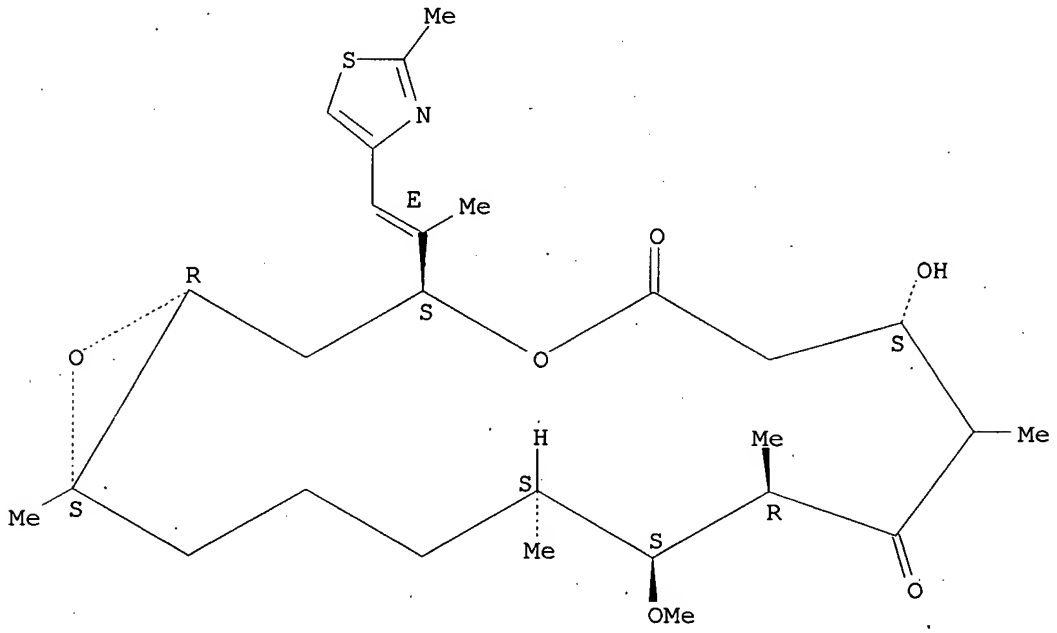
Absolute stereochemistry.
Double bond geometry as shown.



IT 860300-10-3P 860300-19-2P 860300-21-6P
860300-25-0P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(production of epothilones derivs. in Myxococcus or Sorangium comprising PKS mutant gene)
RN 860300-10-3 CAPLUS

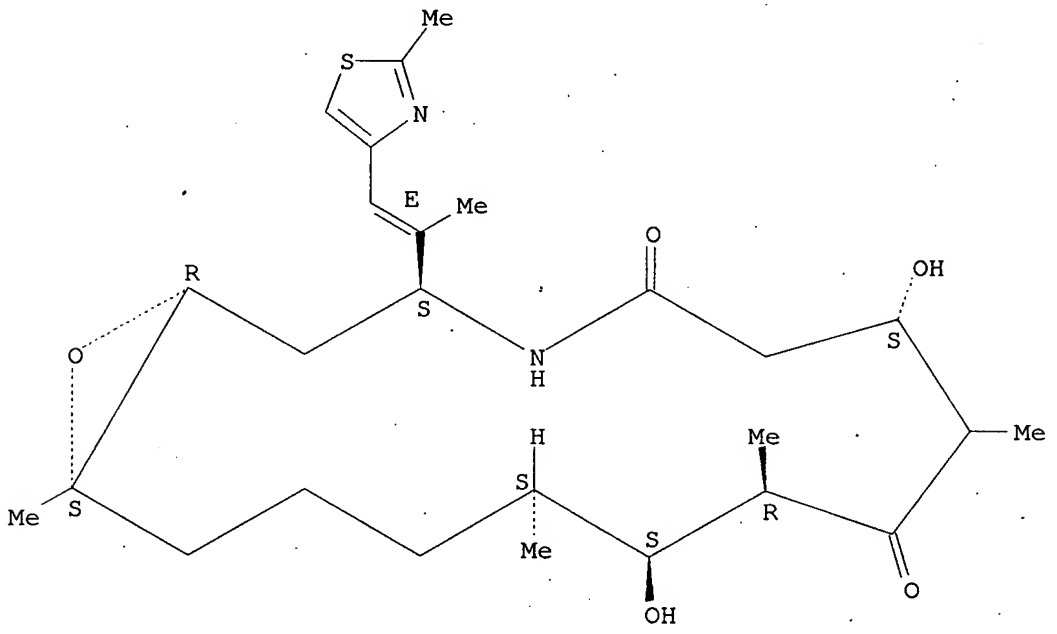
CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7-hydroxy-11-methoxy-8,10,12,16-tetramethyl-3-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (1R,3S,7S,10R,11S,12S,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



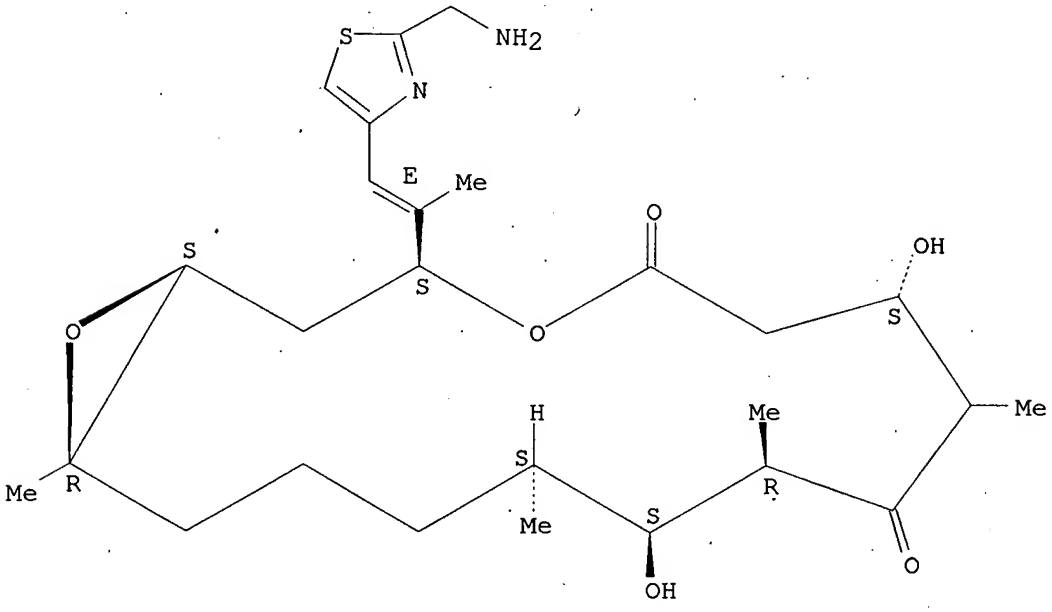
RN 860300-19-2 CAPLUS
CN 17-Oxa-4-azabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-8,10,12,16-tetramethyl-3-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (1R,3S,7S,10R,11S,12S,16S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



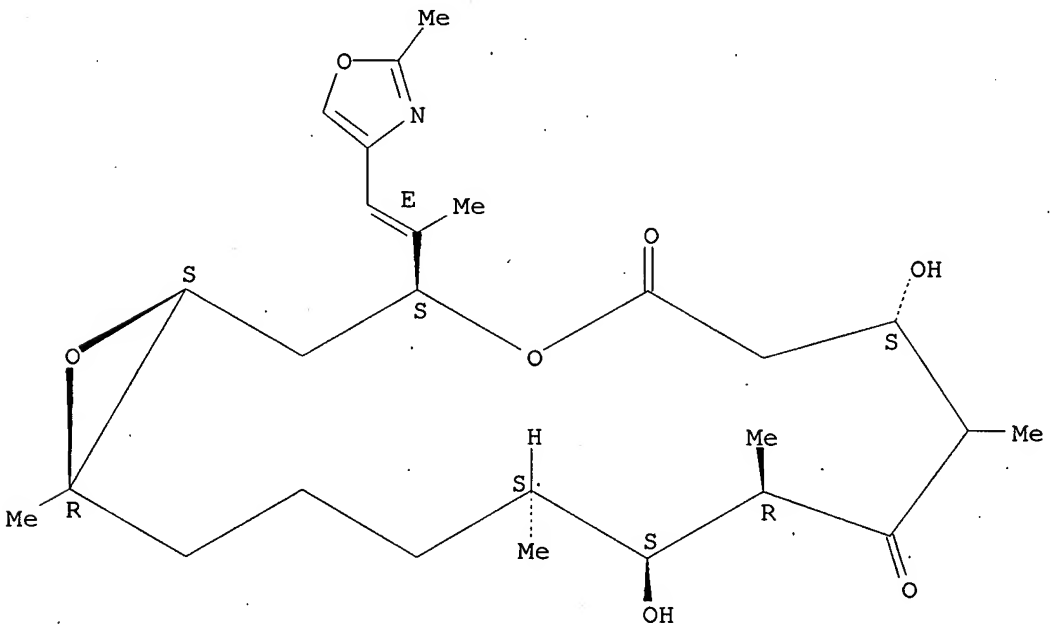
RN 860300-21-6 CAPLUS
CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 3-[(1E)-2-[2-(aminomethyl)-4-thiazolyl]-1-methylethenyl]-7,11-dihydroxy-8,10,12,16-tetramethyl-, (1S,3S,7S,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 860300-25-0 CAPLUS
CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-8,10,12,16-tetramethyl-3-[(1E)-1-methyl-2-(2-methyl-4-oxazolyl)ethenyl]-, (1S,3S,7S,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:550960 CAPLUS
DOCUMENT NUMBER: 141:106321
TITLE: Preparation of epothilone derivatives for use in pharmaceutical compositions as antitumor agents
INVENTOR(S): Denni-Dischert, Donatienne; Floersheimer, Andreas; Kuesters, Ernst; Oberer, Lukas; Sedelmeier, Gottfried
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056832	A2	20040708	WO 2003-EP14747	20031222
WO 2004056832	A3	20040910		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SY, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW				
RW: AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
CA 2510620	A1	20040708	CA 2003-2510620	20031222
AU 2003294938	A1	20040714	AU 2003-294938	20031222
EP 1581536	A2	20051005	EP 2003-785920	20031222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003017693	A	20051122	BR 2003-17693	20031222
CN 1732172	A	20060208	CN 2003-80107416	20031222
JP 2006514025	T	20060427	JP 2004-561416	20031222
US 2006014796	A1	20060119	US 2005-538200	20050609
PRIORITY APPLN. INFO.:			GB 2002-30024 A	20021223
			WO 2003-EP14747 W	20031222

OTHER SOURCE(S): MARPAT 141:106321
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB C4-demethyl-epothilones or C4-bisnor-epothilones, such as I [R1, R7 = H, alkyl; R2 = nitrogen containing heteroaryl; R3 = H, Me; X = O, NR7; Z = O, bond], were prepared via fermentation and organic synthesis for use in pharmaceutical compns. as antitumor agents. Thus, C4-bisnor-epothilone B II (R3 = H) was prepared via an aldol condensation of aldehyde III with in situ disilylated (3R)-3-hydroxy-5-oxoheptanoic acid followed by a desilylation/macrolactonization reaction sequence. Also, C4-demethyl-epothilone B II (R = Me) was prepared directly by a fermentation process. The prepared epothilones were assayed for efficacy against human KB-31 and KB-8511 carcinoma cells. Drug delivery formulations containing the prepared epithilones were presented.

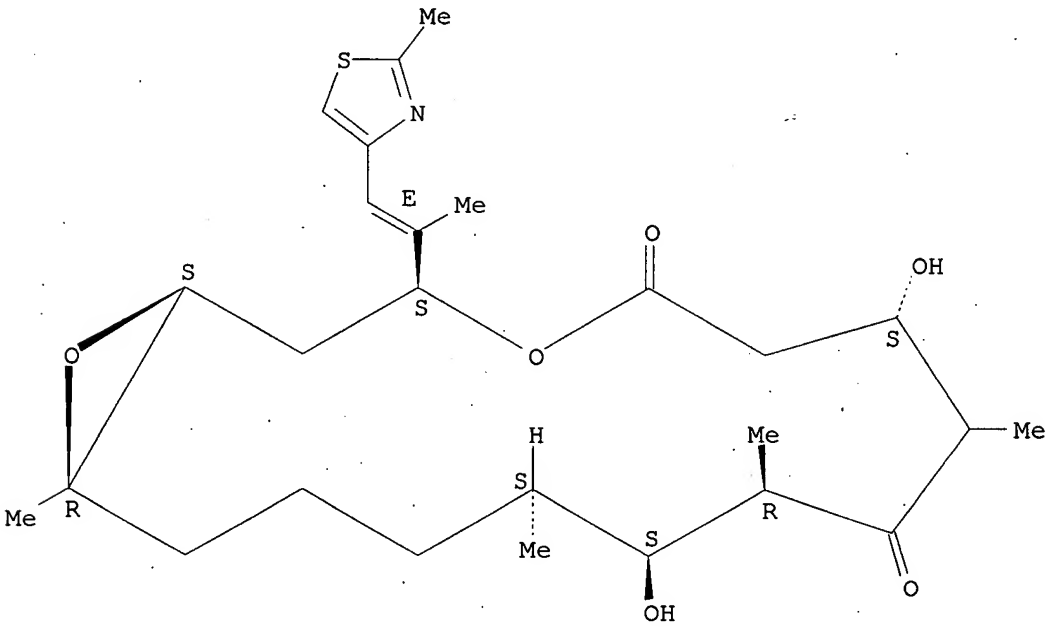
IT 502619-65-0P
RL: BPN (Biosynthetic preparation); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological

study); PREP (Preparation); USES (Uses)
(preparation of epothilone derivs. via fermentation and organic synthesis for use in
pharmaceutical compns. as antitumor agents)

RN 502619-65-0 CAPLUS

CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-8,10,12,16-tetramethyl-3-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (1S,3S,7S,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

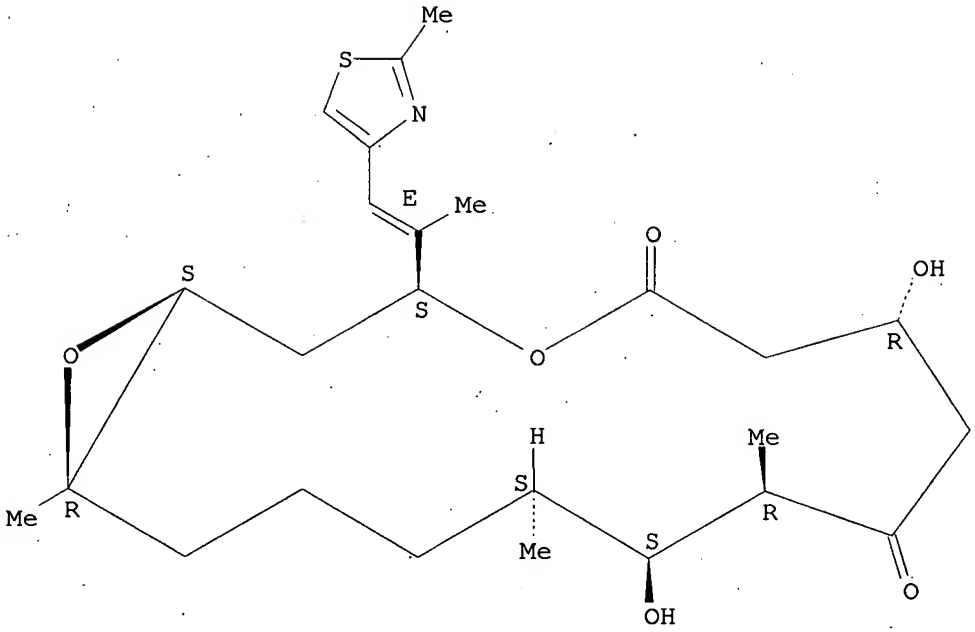


IT 717917-47-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of epothilone derivs. via fermentation and organic synthesis for use in
pharmaceutical compns. as antitumor agents)

RN 717917-47-0 CAPLUS

CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-10,12,16-trimethyl-3-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (1S,3S,7R,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:182886 CAPLUS
DOCUMENT NUMBER: 140:217439
TITLE: Synthesis of epothilones for use in pharmaceutical compositions for the treatment of cancer
INVENTOR(S): Danishefsky, Samuel J.; Rivkin, Alexey; Yoshimura, Fumihiko; Gabarda Ortega, Ana Esther; Cho, Young Shin; Chou, Ting-Chao; Dongm, Huajin
PATENT ASSIGNEE(S): Sloan-Kettering Institute for Cancer Research, USA
SOURCE: PCT Int. Appl., 223 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

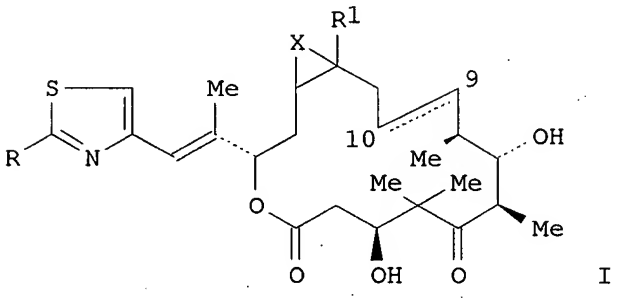
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004018478	A2	20040304	WO 2003-US26367	20030822
WO 2004018478	A3	20041209		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004053995	A1	20040318	US 2003-402004	20030328
US 6921769	B2	20050726		
US 2004053910	A1	20040318	US 2003-435408	20030509
CA 2496477	A1	20040304	CA 2003-2496477	20030822
AU 2003260002	A1	20040311	AU 2003-260002	20030822
EP 1506203	A2	20050216	EP 2003-793304	20030822
EP 1506203	B1	20070103		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2006502246	T	20060119	JP 2005-501774	20030822
CN 1759115	A	20060412	CN 2003-822561	20030822
MX 2005PA02113	A	20050603	MX 2005-PA2113	20050223
IN 2005KN00462	A	20060303	IN 2005-KN462	20050318
PRIORITY APPLN. INFO.:			US 2002-405823P	P 20020823
			US 2002-408589P	P 20020906
			US 2002-423129P	P 20021101
			US 2003-456159P	P 20030320
			US 2003-402004	A 20030328
			US 2003-435408	A 20030509
			US 2003-496741P	P 20030821
			WO 2003-US26367	W 20030822

OTHER SOURCE(S): CASREACT 140:217439; MARPAT 140:217439

GI



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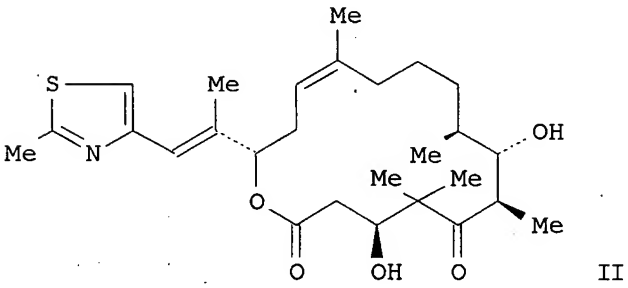


II

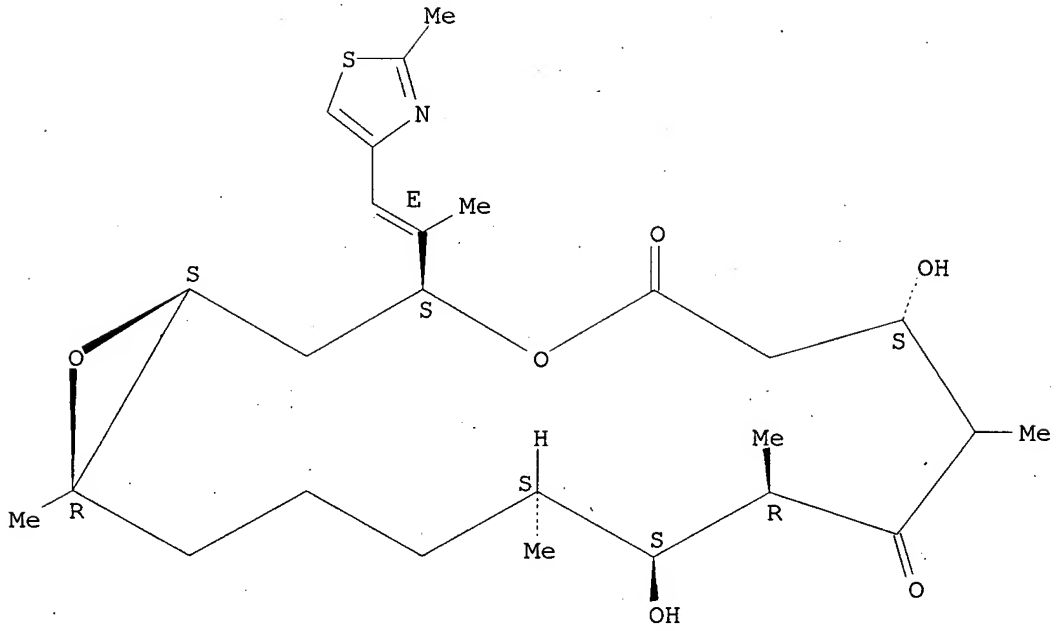
AB Epothilones, such as I [R = Me, CH2OH, CH2NH2, etc.; R1 = H, Me, CF3, etc.; X = O, bond; 9,10-saturated or -unsatd.], were prepared for therapeutic use as antitumor agents. Thus, II was prepared via a multistep synthetic sequence which included an intramol. metathesis reaction to form the macrocyclic ring. The prepared epothilones were assayed for pharmacol. activity by various means which included growth inhibition of CCRF-CEM cells.

IT 502619-65-0
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(synthesis of epothilones for use in pharmaceutical compns. for the treatment of cancer)

RN 502619-65-0 CAPLUS

CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-8,10,12,16-tetramethyl-3-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (1S,3S,7S,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

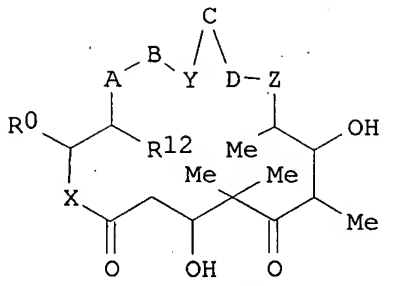


L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:221685 CAPLUS
DOCUMENT NUMBER: 138:255008
TITLE: Synthesis of epothilones for therapeutic use as anticancer agents
INVENTOR(S): Danishefsky, Samuel J.; Biswas, Kaustav; Chapell, Mark; Lin, Hong; Njardarson, Jon T.; Lee, Chulbom; Rivkin, Alexey; Chou, Ting-Chao
PATENT ASSIGNEE(S): Sloan-Kettering Institute for Cancer Research, USA
SOURCE: PCT Int. Appl., 219 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2003022844	A2	20030320	WO 2002-US28425		20020906
WO 2003022844	A3	20040304			
WO 2003022844	A9	20040415			
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW					
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
AU 2002329988	A1	20030324	AU 2002-329988		20020906
US 2003176368	A1	20030918	US 2002-236135		20020906
PRIORITY APPLN. INFO.:			US 2001-317637P	P	20010906
			US 2001-351576P	P	20011026
			WO 2002-US28425	W	20020906

OTHER SOURCE(S): MARPAT 138:255008

GI



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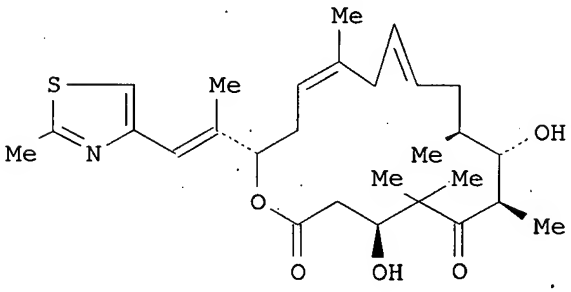


II

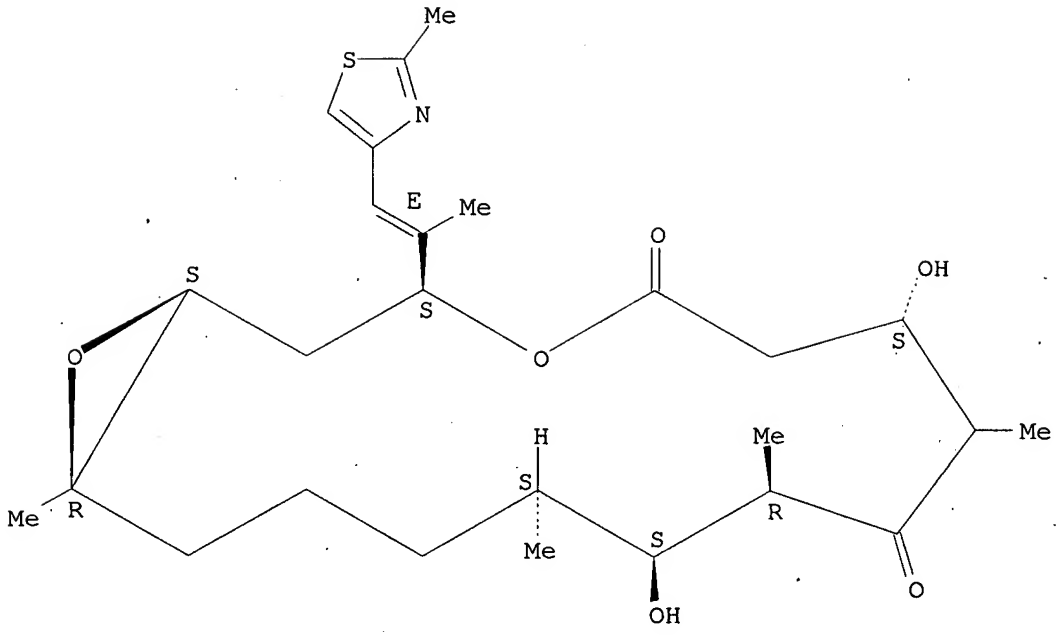
AB Epothilones, such as I [R0 = aryl, heteroaryl, arylalkyl, arylalkenyl, arylalkynyl, etc.; R1, R1', R2, R2' = H, alkyl, haloalkyl, etc.; R3, R3' = H, alkyl, etc.; R12 = H, OH, NH2, halogen, alkoxy, alkylamino, etc.; A-B, C-D = C(R1):C(R2), CR1R1'CR2R2', etc.; X = O, S, CR3R3', NR3; Y = (CH2)m; Z = (CH2)q; m = 0-3, q = 1-3, and m + q = 1-4], were prepared for use in pharmaceutical compns. for the treatment of cancer. Thus, epothilone II was prepared via a multistep synthetic sequence which included an intramol. metathesis macrocyclization reaction using Grubbs' imidazole catalyst. The prepared epothilones were tested for cytotoxicity against a number of cancer cell lines.

IT 502619-65-0P
RL: PAC (Pharmacological activity); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn of epothilones for therapeutic use as anticancer agents)

RN 502619-65-0 CAPLUS

CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-8,10,12,16-tetramethyl-3-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (1S,3S,7S,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:413810 CAPLUS
DOCUMENT NUMBER: 135:179755
TITLE: New Natural Epothilones from Sorangium cellulosum, Strains So ce90/B2 and So ce90/D13: Isolation, Structure Elucidation, and SAR Studies
AUTHOR(S): Hardt, Ingo H.; Steinmetz, Heinrich; Gerth, Klaus; Sasse, F.; Reichenbach, Hans; Hoefle, Gerhard
CORPORATE SOURCE: Gesellschaft fuer Biotechnologische Forschung mbH, Braunschweig, D-38124, Germany
SOURCE: Journal of Natural Products (2001), 64(7), 847-856
CODEN: JNPRDF; ISSN: 0163-3864
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

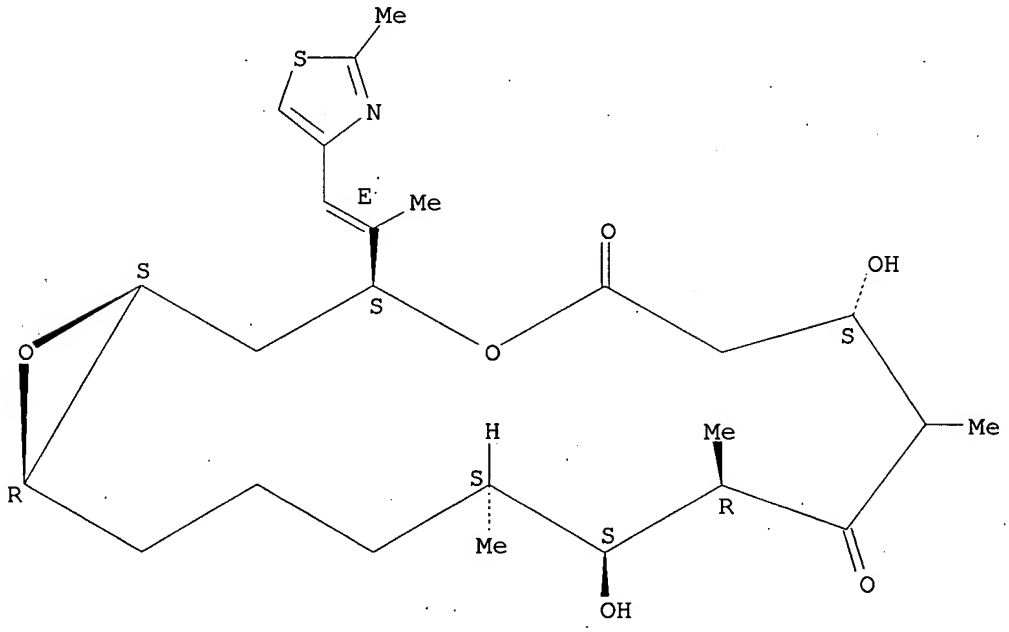
AB In addition to epothilones A (1) and B (2), 37 natural epothilone variants and epothilone-related compds. were isolated from the culture broth of a 700 L fermentation of Sorangium cellulosum, strain So ce90/B2. Of these, only the 12,13-desoxyepothilones, epothilone C (14) and D (15), were produced in significant amts. (3-6 mg/L); the 21-hydroxy derivs. and epothilones E (3) and F (4), in low and variable amts. due to further degradation by the producing organism. Most of the other epothilone variants were produced only in 1-100 μg/L amts. The new compds. are very similar in structure to the parent compds. 1, 2 and 14, 15 and are presumably the result of the imperfect selectivity of the biosynthetic enzymes for acetate and propionate. Further, epothilones containing an oxazole moiety (10-13) in the side chain instead of a thiazole as well as ring-expanded 18-membered macrolides, epothilones I (30-35), and a ring contracted 14-membered macrolide, epothilone K (36), were found as very minor metabolites. The mutant strain, So ce90/D13, instead of macrolactones, produced short-chain carboxylic acids 40, 41, and 42 bearing the characteristic thiazole side chain. The structures of the new epothilones were elucidated on the basis of comprehensive NMR and MS data. The new epothilone variants were tested in a cytotoxicity assay with mouse fibroblasts (cell line L929), and structure-activity relationships were established. Several new natural epothilones showed activity comparable to 1 and 2, but in no case exceeded that of 2.

IT 252917-29-6P, Epothilone A1 252917-30-9P, Epothilone A2
RL: BPN (Biosynthetic preparation); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
(new natural epothilones from Sorangium cellulosum)

RN 252917-29-6 CAPLUS

CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-8,10,12-trimethyl-3-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (1S,3S,7S,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

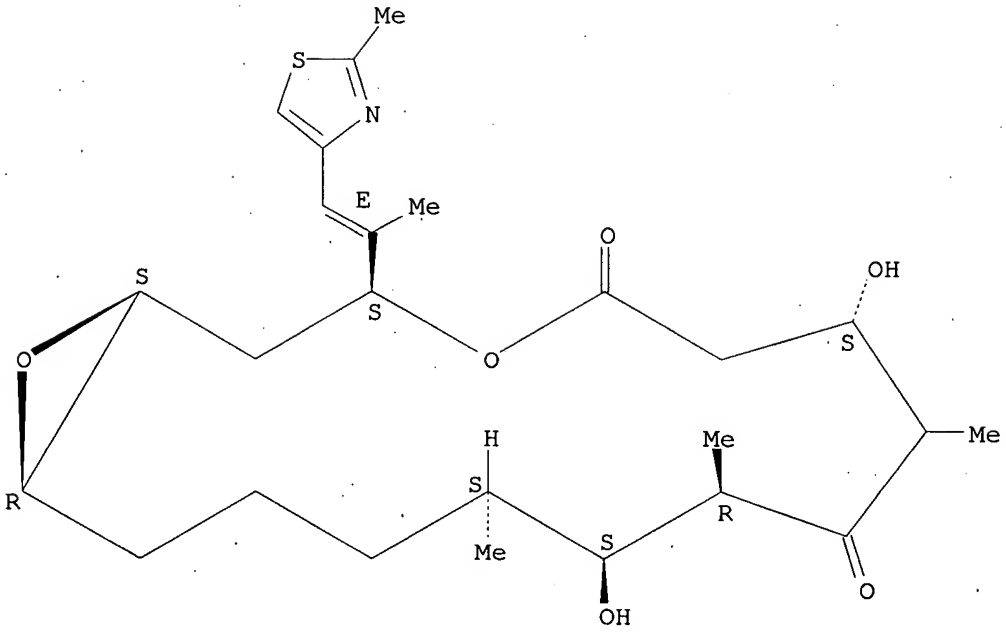
Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.



RN 252917-30-9 CAPLUS

CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-8,10,12-trimethyl-3-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (1S,3S,7S,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.
Currently available stereo shown.



REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:811249 CAPLUS
DOCUMENT NUMBER: 132:49105
TITLE: Epothilone minor constituents
INVENTOR(S): Hoefle, Gerhard; Reichenbach, Hans; Gerth, Klaus; Hardt, Ingo; Sasse, Florenz; Steinmetz, Heinrich
PATENT ASSIGNEE(S): Gesellschaft Fur Biotechnologische Forschung m.b.H. (Gbf), Germany
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9965913	A2	19991223	WO 1999-EP4244	19990618
WO 9965913	A3	20000420		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19826988	A1	19991223	DE 1998-19826988	19980618
CA 2336189	A1	19991223	CA 1999-2336189	19990618
AU 9948995	A	20000105	AU 1999-48995	19990618
AU 757452	B2	20030220		
EP 1087975	A2	20010404	EP 1999-932700	19990618
EP 1087975	B1	20030827		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

JP 2002518397	T	20020625	JP 2000-554738	19990618
EP 1275648	A1	20030115	EP 2002-22332	19990618
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AT 248174	T	20030915	AT 1999-932700	19990618
PT 1087975	T	20040130	PT 1999-932700	19990618
ES 2207249	T3	20040516	ES 1999-932700	19990618
US 6624310	B1	20030923	US 2001-719932	20010321
US 2004049051	A1	20040311	US 2003-457098	20030606
US 2006142584	A1	20060629	US 2006-354769	20060215
US 7235669	B2	20070626		

PRIORITY APPLN. INFO.:

DE 1998-19826988	A 19980618
EP 1999-932700	A3 19990618
WO 1999-EP4244	W 19990618
US 2001-719932	A3 20010321
US 2003-457098	A1 20030606

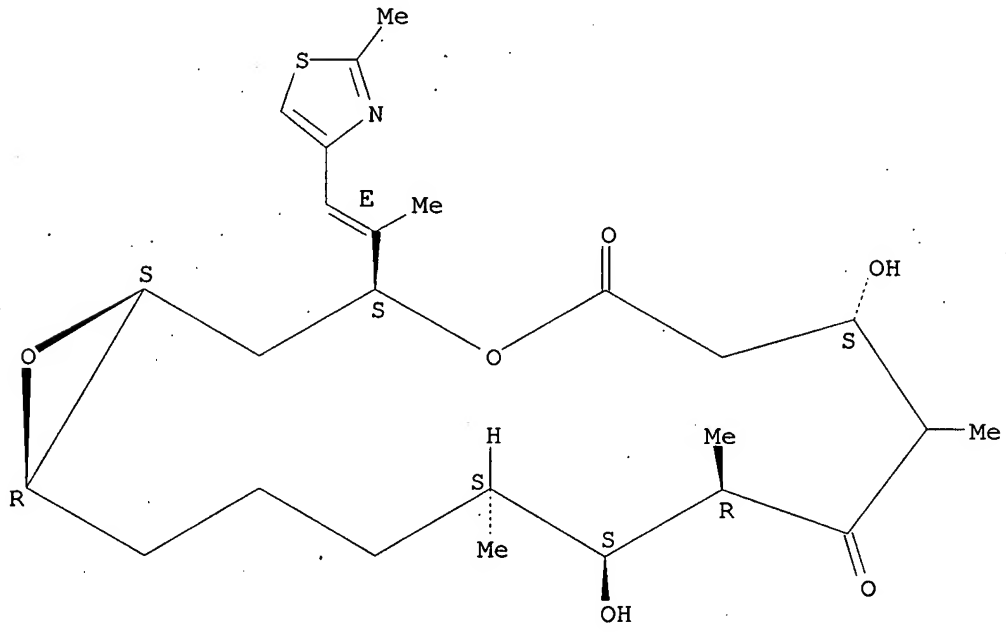
AB The invention relates to compds. which are obtained by fermenting DSM 6773, especially epothilones A1, A2, A8, A9, B10, C1, C2, C3, C4, C5, C6, C7, C8, C9, D1, D2, D5, G1, G2, H1, H2, I1, I2, I3, I4, I5, I6 and K and trans-epothilones C1 and C2.

IT 252917-29-6P, Epothilone A1 252917-30-9P, Epothilone A2
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(epothilone minor constituents)

RN 252917-29-6 CAPLUS

CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-8,10,12-trimethyl-3-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-, (1S,3S,7S,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).
Double bond geometry as shown.
Currently available stereo shown.

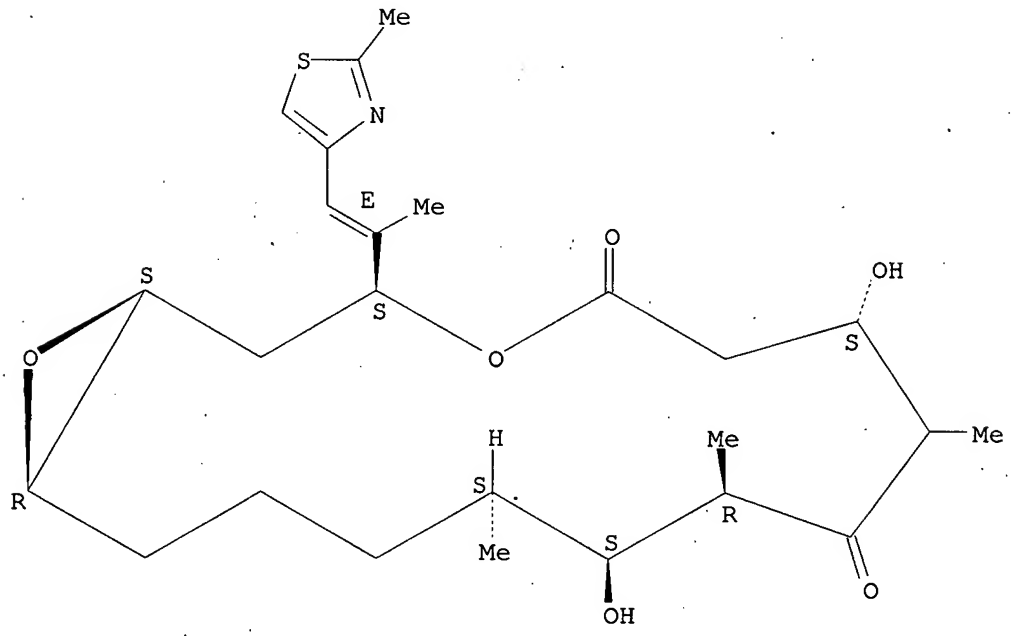


RN 252917-30-9 CAPLUS

CN 4,17-Dioxabicyclo[14.1.0]heptadecane-5,9-dione, 7,11-dihydroxy-8,10,12-

trimethyl-3-[(1E)-1-methyl-2-(2-methyl-4-thiazolyl)ethenyl]-,
(1S,3S,7S,10R,11S,12S,16R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.
Currently available stereo shown.



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(FILE 'HOME' ENTERED AT 10:19:07 ON 13 AUG 2007)

FILE 'REGISTRY' ENTERED AT 10:19:20 ON 13 AUG 2007
L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 14 S L1 FULL
L4 9 S L2 FULL

FILE 'CAPLUS' ENTERED AT 10:20:57 ON 13 AUG 2007
L5 3 S L3 FULL
L6 6 S L4 FULL

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	48.84	393.70
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.02	-7.02

STN INTERNATIONAL LOGOFF AT 10:22:40 ON 13 AUG 2007

cl 12

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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAY 01	New CAS web site launched
NEWS 3	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 4	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 5	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 6	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 7	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 8	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 9	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 10	JUN 29	STN Viewer now available
NEWS 11	JUN 29	STN Express, Version 8.2, now available
NEWS 12	JUL 02	LEMBASE coverage updated
NEWS 13	JUL 02	LMEDLINE coverage updated
NEWS 14	JUL 02	SCISEARCH enhanced with complete author names
NEWS 15	JUL 02	CHEMCATS accession numbers revised
NEWS 16	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 17	JUL 16	CAplus enhanced with French and German abstracts
NEWS 18	JUL 18	CA/CAplus patent coverage enhanced
NEWS 19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 20	JUL 30	USGENE now available on STN
NEWS 21	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 22	AUG 06	BEILSTEIN updated with new compounds
NEWS 23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 24	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

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NEWS IPC8	For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 10:24:33 ON 13 AUG 2007

=> FILE REG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:25:05 ON 13 AUG 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 AUG 2007 HIGHEST RN 944447-30-7
DICTIONARY FILE UPDATES: 12 AUG 2007 HIGHEST RN 944447-30-7

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http://www.cas.org/support/stngen/stndoc/properties.html

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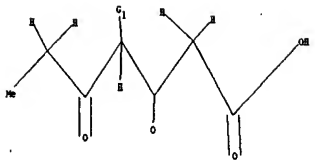
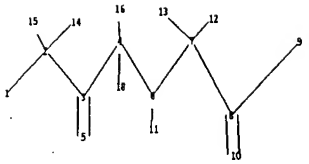
Uploading C:\Program Files\Stnexp\Queries\10538200d.str





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chain bonds :
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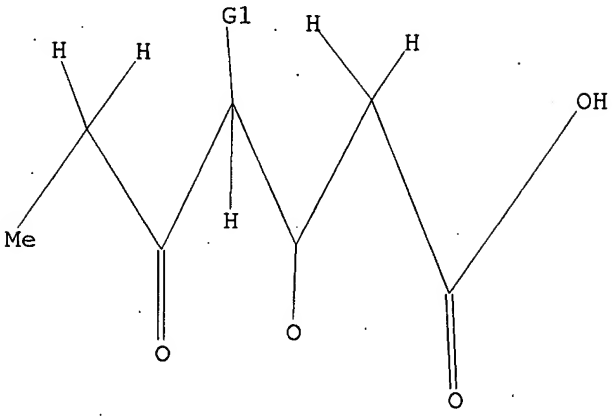
8-10
exact/norm bonds :
3-5 4-16 6-11
exact bonds :
1-2 2-3 2-14 2-15 3-4 4-6 4-18 6-7 7-8 7-12 7-13
normalized bonds :
8-9 8-10

G1:H,C

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 18:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 H,C

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 10:25:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 113937 TO ITERATE

100.0% PROCESSED 113937 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.02

L2 3 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	172.31

FILE 'CAPLUS' ENTERED AT 10:25:57 ON 13 AUG 2007
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FILE COVERS 1907 - 13 Aug 2007 VOL 147 ISS 8
FILE LAST UPDATED: 12 Aug 2007 (20070812/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
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=> s l3 full
L3 NOT FOUND
The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

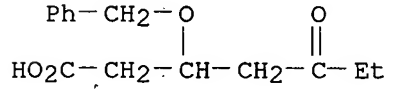
=> s l2 full
L3 2 L2

=> d ibib abs hitstr tot

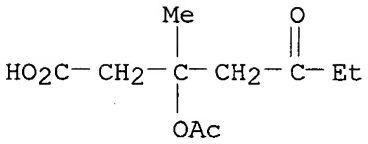
L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:1068138 CAPLUS
DOCUMENT NUMBER: 142:197448
TITLE: Highly Efficient Nickel-Catalyzed Cross-Coupling of Succinic and Glutaric Anhydrides with Organozinc Reagents
AUTHOR(S): Bercot, Eric A.; Rovis, Tomislav
CORPORATE SOURCE: Department of Chemistry, Colorado State University, Fort Collins, CO, 80523, USA
SOURCE: Journal of the American Chemical Society (2005), 127(1), 247-254
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 142:197448

AB A nickel-catalyzed alkylation of succinic and glutaric anhydrides with alkyl- and arylzinc reagents has been developed. A dramatic olefin effect has been investigated resulting in the identification of several styrene-based promoters which show pronounced enhancements in reaction rate. The substrate scope with respect to electrophilic and nucleophilic coupling partners has been examined and found to be remarkably broad, allowing for rapid introduction of mol. complexity through the use of functionalized coupling partners. Regioselective alkylation of an unsym. succinic anhydride and a profound effect of pendent coordinating olefins on reaction rate suggest a mechanism involving discrete oxidative addition of the nickel complex into the cyclic anhydride followed by a transmetalation event.

IT 838906-37-9P 838906-40-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(alkylation on nickel-catalyzed cross-coupling of succinic and glutaric anhydrides with organozinc reagents)
RN 838906-37-9 CAPLUS
CN Heptanoic acid, 5-oxo-3-(phenylmethoxy)- (9CI) (CA INDEX NAME)



RN 838906-40-4 CAPLUS
CN Heptanoic acid, 3-(acetyloxy)-3-methyl-5-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 82 THERE ARE 82 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:550960 CAPLUS
DOCUMENT NUMBER: 141:106321
TITLE: Preparation of epothilone derivatives for use in pharmaceutical compositions as antitumor agents
INVENTOR(S): Denni-Dischert, Donatienne; Floersheimer, Andreas; Kuesters, Ernst; Oberer, Lukas; Sedelmeier, Gottfried
PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004056832	A2	20040708	WO 2003-EP14747	20031222
WO 2004056832	A3	20040910		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SY, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW				
RW: AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
CA 2510620	A1	20040708	CA 2003-2510620	20031222
AU 2003294938	A1	20040714	AU 2003-294938	20031222
EP 1581536	A2	20051005	EP 2003-785920	20031222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003017693	A	20051122	BR 2003-17693	20031222
CN 1732172	A	20060208	CN 2003-80107416	20031222
JP 2006514025	T	20060427	JP 2004-561416	20031222
US 2006014796	A1	20060119	US 2005-538200	20050609
PRIORITY APPLN. INFO.:			GB 2002-30024 A	20021223
			WO 2003-EP14747 W	20031222

OTHER SOURCE(S): MARPAT 141:106321
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB C4-demethyl-epothilones or C4-bisnor-epothilones, such as I [R1, R7 = H, alkyl; R2 = nitrogen containing heteroaryl; R3 = H, Me; X = O, NR7; Z = O, bond], were prepared via fermentation and organic synthesis for use in pharmaceutical compns. as antitumor agents. Thus, C4-bisnor-epothilone B II (R3 = H) was

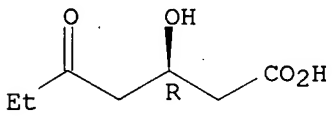
prepared via an aldol condensation of aldehyde III with in situ disilylated (3R)-3-hydroxy-5-oxoheptanoic acid followed by a desilylation/macrolactonization reaction sequence. Also, C4-demethyl-epothilone B II (R = Me) was prepared directly by a fermentation process. The prepared epothilones were assayed for efficacy against human KB-31 and KB-8511 carcinoma cells. Drug delivery formulations containing the prepared epithilones were presented.

IT 717917-50-5, (3R)-3-Hydroxy-5-oxoheptanoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of epothilone derivs. via fermentation and organic synthesis for use in
pharmaceutical compns. as antitumor agents)

RN 717917-50-5 CAPLUS

CN Heptanoic acid, 3-hydroxy-5-oxo-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d his

(FILE 'HOME' ENTERED AT 10:24:33 ON 13 AUG 2007)

FILE 'REGISTRY' ENTERED AT 10:25:05 ON 13 AUG 2007
L1 STRUCTURE UPLOADED
L2 3 S L1 FULL

FILE 'CAPLUS' ENTERED AT 10:25:57 ON 13 AUG 2007
L3 2 S L2 FULL

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.01	183.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

STN INTERNATIONAL LOGOFF AT 10:26:24 ON 13 AUG 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTANXR1625

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 5	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 6	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 7	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 8	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 9	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
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NEWS 15	JUL 02	CHEMCATS accession numbers revised
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NEWS 19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 20	JUL 30	USGENE now available on STN
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NEWS 23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 24	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:27:04 ON 13 AUG 2007

=> FILE REG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:27:27 ON 13 AUG 2007
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STRUCTURE FILE UPDATES: 12 AUG 2007 HIGHEST RN 944447-30-7
DICTIONARY FILE UPDATES: 12 AUG 2007 HIGHEST RN 944447-30-7

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

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http://www.cas.org/support/stngen/stndoc/properties.html

=>
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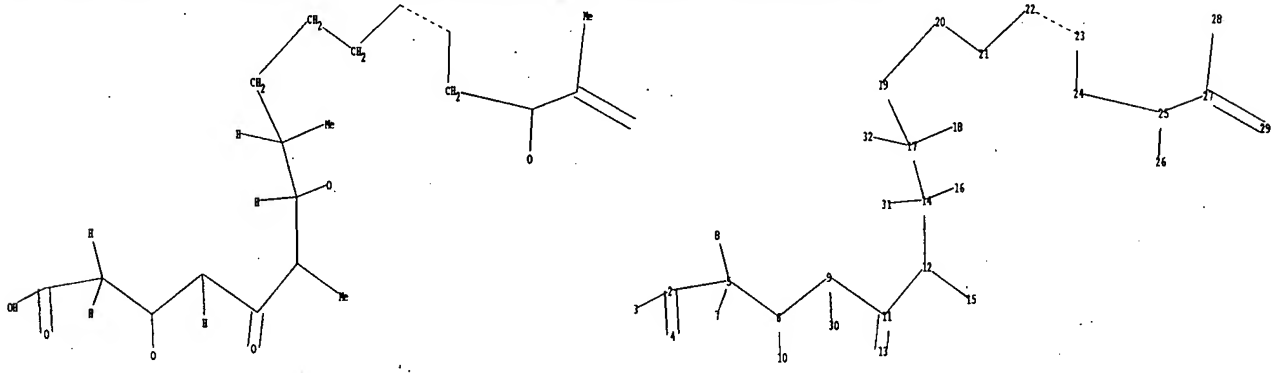


chain nodes :
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
chain bonds :
2-3 2-4 2-5 5-6 5-7 5-8 6-9 6-10 9-11 9-30 11-12 11-13 12-14 12-15 14-16 14-17 14-31 17-18 17-19 17-32 19-20 20-21 21-22 22-23 23-24 24-25 25-26 25-27 27-28 27-29

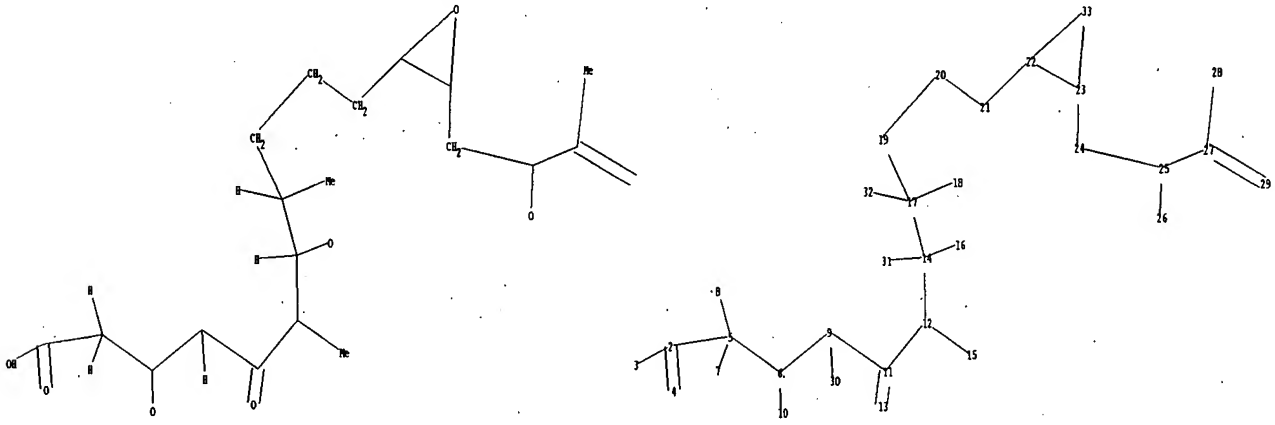
exact/norm bonds :
6-10 11-13 14-16 22-23 25-26
exact bonds :
2-5 5-6 5-7 5-8 6-9 9-11 9-30 11-12 12-14 12-15 14-17 14-31 17-18
17-19 17-32 19-20 20-21 21-22 23-24 24-25 25-27 27-28 27-29
normalized bonds :
2-3 2-4

G1:H,C

Match level :
2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS
27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS

L1 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\10538200c.str



chain nodes :
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 24 25 26
27 28 29 30 31 32
ring nodes :
22 23 33
chain bonds :
2-3 2-4 2-5 5-6 5-7 5-8 6-9 6-10 9-11 9-30 11-12 11-13 12-14 12-15
14-16 14-17 14-31 17-18 17-19 17-32 19-20 20-21 21-22 23-24 24-25 25-26
25-27 27-28 27-29
ring bonds :
22-23 22-33 23-33
exact/norm bonds :
6-10 11-13 14-16 22-23 22-33 23-33 25-26
exact bonds :

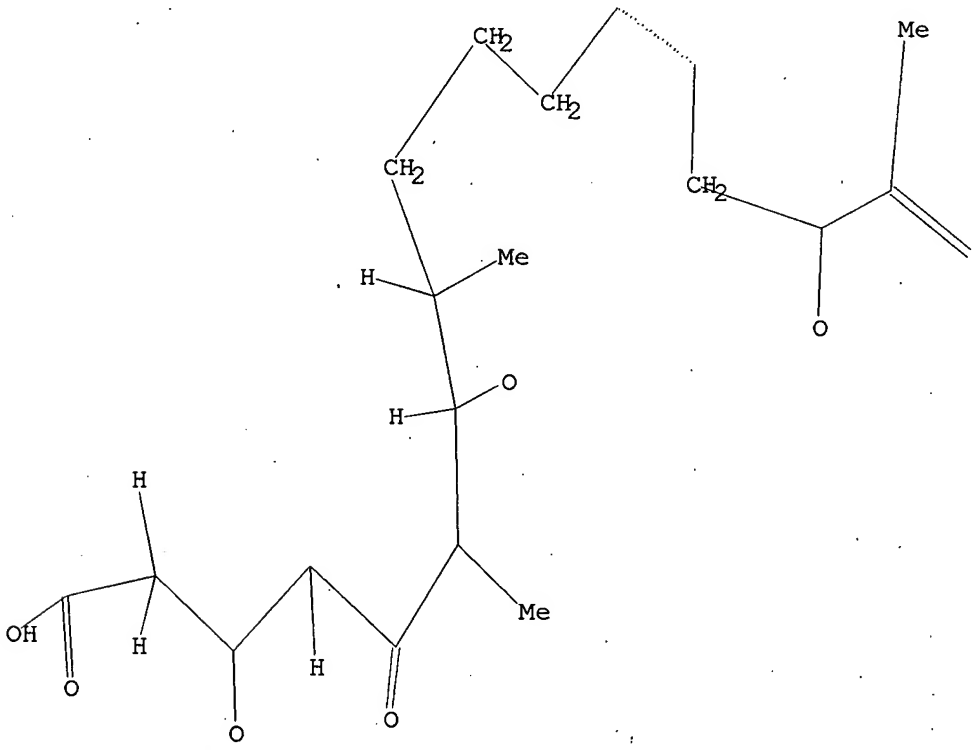
2-5 5-6 5-7 5-8 6-9 9-11 9-30 11-12 12-14 12-15 14-17 14-31 17-18
17-19 17-32 19-20 20-21 21-22 23-24 24-25 25-27 27-28 27-29
normalized bonds :
2-3 2-4

G1:H,C

Match level :
2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS
27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:Atom

L2 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 H,C

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 10:28:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 912 TO ITERATE

100.0% PROCESSED 912 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

```
=> d l2
L2 HAS NO ANSWERS
L2                STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=> s l2 full
FULL SEARCH INITIATED 10:28:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      169 TO ITERATE

100.0% PROCESSED      169 ITERATIONS                                 0 ANSWERS
SEARCH TIME: 00.00.01

L4             0 SEA SSS FUL L2

=> log y
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     344.20     344.41

STN INTERNATIONAL LOGOFF AT 10:28:51 ON 13 AUG 2007
```

d: 14

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Welcome to STN International! Enter x:x

LOGINID:SSPTANXR1625

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 18	JUL 18	CA/CAplus patent coverage enhanced
NEWS 19	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
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NEWS 22	AUG 06	BEILSTEIN updated with new compounds
NEWS 23	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 24	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents

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AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:29:42 ON 13 AUG 2007

=> FILE REG
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:30:04 ON 13 AUG 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 AUG 2007 HIGHEST RN 944447-30-7
DICTIONARY FILE UPDATES: 12 AUG 2007 HIGHEST RN 944447-30-7

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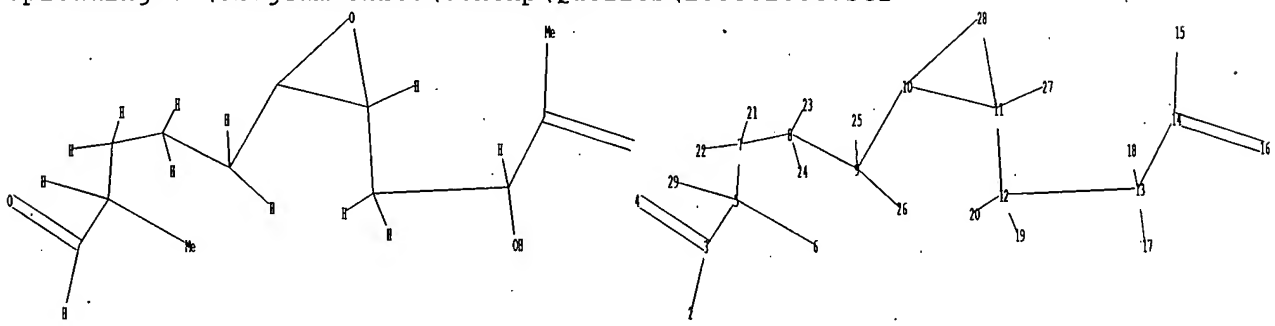
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10538200e.str



chain nodes :
2 3 4 5 6 7 8 9 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29
ring nodes :
10 11 28
chain bonds :
2-3 3-4 3-5 5-6 5-7 5-29 7-8 7-21 7-22 8-9 8-23 8-24 9-10 9-25 9-26 11-12 11-27 12-13 12-19 12-20 13-14 13-17 13-18 14-15 14-16
ring bonds :
10-11 10-28 11-28
exact/norm bonds :
3-4 10-11 10-28 11-28 13-17

exact bonds :
2-3 3-5 5-6 5-7 5-29 7-8 7-21 7-22 8-9 8-23 8-24 9-10 9-25 9-26 11-12
11-27 12-13 12-19 12-20 13-14 13-18 14-15 14-16

G1:H,C

Match level :
2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS
27:CLASS 28:Atom 29:CLASS

L1 STRUCTURE UPLOADED

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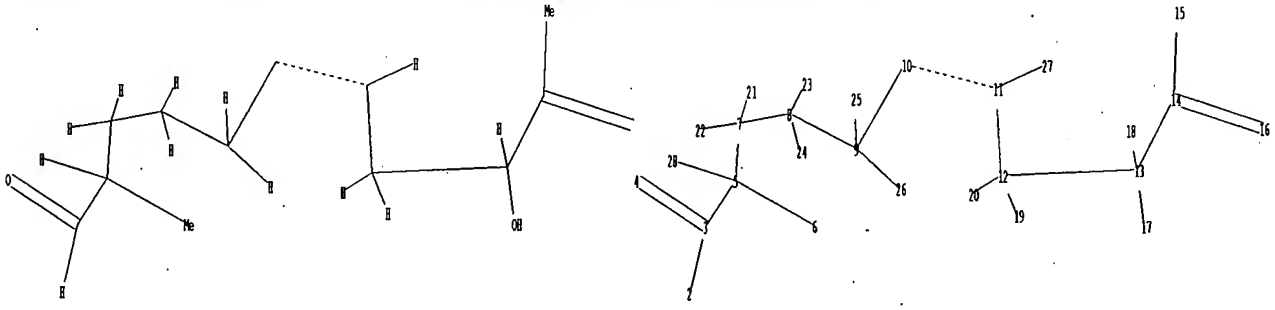
Uploading C:\Program Files\Stnexp\Queries\10538200f.str



chain nodes :
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28
chain bonds :
2-3 3-4 3-5 5-6 5-7 5-28 7-8 7-21 7-22 8-9 8-23 8-24 9-10 9-25 9-26
10-11 11-12 11-27 12-13 12-19 12-20 13-14 13-17 13-18 14-15 14-16
exact/norm bonds :
3-4 10-11 13-17
exact bonds :
2-3 3-5 5-6 5-7 5-28 7-8 7-21 7-22 8-9 8-23 8-24 9-10 9-25 9-26 11-12
11-27 12-13 12-19 12-20 13-14 13-18 14-15 14-16

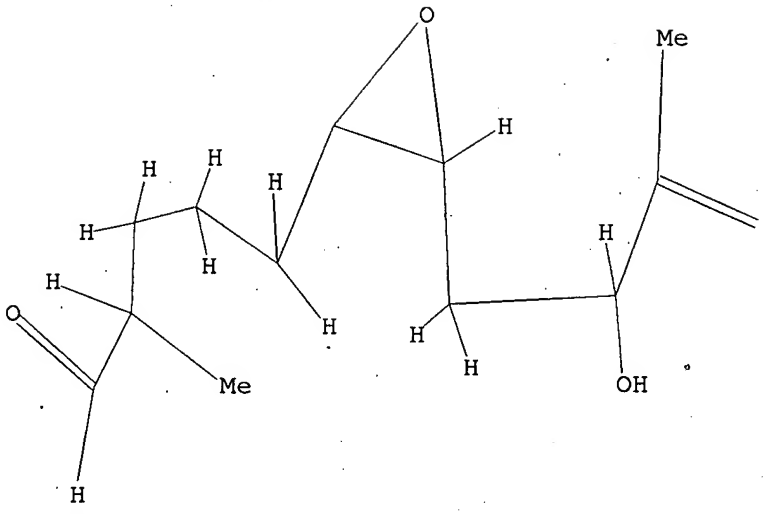
G1:H,C

Match level :
2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS
27:CLASS 28:CLASS

L2 STRUCTURE UPLOADED

=> D L1

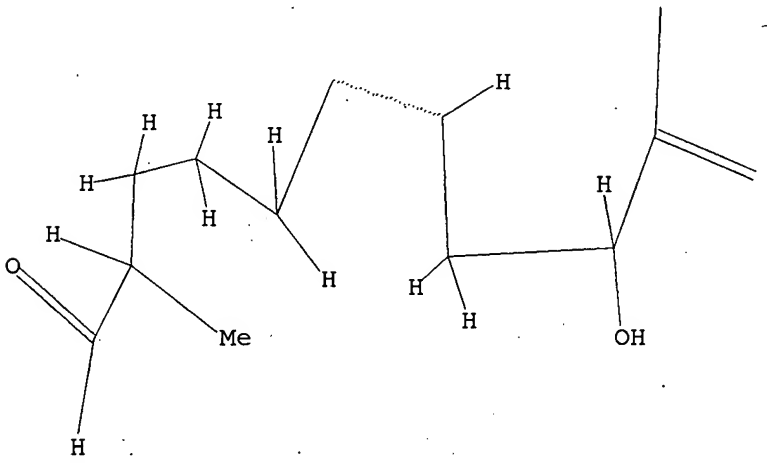
L1 HAS NO ANSWERS
L1 STR



G1 H,C

Structure attributes must be viewed using STN Express query preparation.

=> D L2
L2 HAS NO ANSWERS
L2 STR



G1 H,C

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 10:31:16 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1531 TO ITERATE

100.0% PROCESSED 1531 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L3 2 SEA SSS FUL L1

```
=> s l2 full
FULL SEARCH INITIATED 10:31:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    69139 TO ITERATE

100.0% PROCESSED    69139 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L4            0 SEA SSS FUL L2

=> file caplus
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FULL ESTIMATED COST                                     344.20     344.41

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L5            1 L3

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L5   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2004:550960  CAPLUS
DOCUMENT NUMBER:          141:106321
TITLE:                    Preparation of epothilone derivatives for use in
                          pharmaceutical compositions as antitumor agents
INVENTOR(S):              Denni-Dischert, Donatienne; Floersheimer, Andreas;
                          Kuesters, Ernst; Oberer, Lukas; Sedelmeier, Gottfried
PATENT ASSIGNEE(S):       Novartis A.-G., Switz.; Novartis Pharma G.m.b.H.
SOURCE:                   PCT Int. Appl., 50 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
     ----------------    ----   --------    --------------------     --------
     WO 2004056832        A2    20040708    WO 2003-EP14747          20031222
     WO 2004056832        A3    20040910
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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SY, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW
RW: AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR

CA 2510620	A1	20040708	CA 2003-2510620		20031222
AU 2003294938	A1	20040714	AU 2003-294938		20031222
EP 1581536	A2	20051005	EP 2003-785920		20031222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
BR 2003017693	A	20051122	BR 2003-17693		20031222
CN 1732172	A	20060208	CN 2003-80107416		20031222
JP 2006514025	T	20060427	JP 2004-561416		20031222
US 2006014796	A1	20060119	US 2005-538200		20050609
PRIORITY APPLN. INFO.:			GB 2002-30024	A	20021223
			WO 2003-EP14747	W	20031222

OTHER SOURCE(S): MARPAT 141:106321
GI

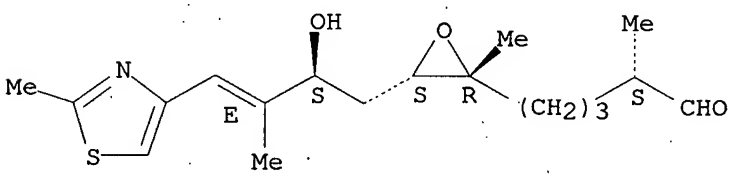
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB C4-demethyl-epothilones or C4-bisnor-epothilones, such as I [R1, R7 = H, alkyl; R2 = nitrogen containing heteroaryl; R3 = H, Me; X = O, NR7; Z = O, bond], were prepared via fermentation and organic synthesis for use in pharmaceutical compns. as antitumor agents. Thus, C4-bisnor-epothilone B II (R3 = H) was prepared via an aldol condensation of aldehyde III with in situ disilylated (3R)-3-hydroxy-5-oxoheptanoic acid followed by a desilylation/macrolactonization reaction sequence. Also, C4-demethyl-epothilone B II (R = Me) was prepared directly by a fermentation process. The prepared epothilones were assayed for efficacy against human KB-31 and KB-8511 carcinoma cells. Drug delivery formulations containing the prepared epithilones were presented.

IT 717917-44-7P
RL: BPN (Biosynthetic preparation); RCT (Reactant); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(preparation of epothilone derivs. via fermentation and organic synthesis for use in pharmaceutical compns. as antitumor agents)

RN 717917-44-7 CAPLUS
CN Oxiranepentanal, 3-[(2S,3E)-2-hydroxy-3-methyl-4-(2-methyl-4-thiazolyl)-3-butenyl]-α,2-dimethyl-, (αS,2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



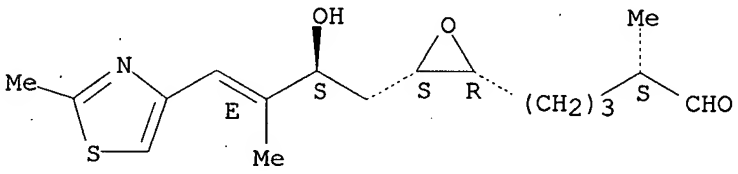
IT 717917-46-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of epothilone derivs. via fermentation and organic synthesis for use in
pharmaceutical compns. as antitumor agents)

RN 717917-46-9 CAPLUS

CN Oxiranepentanal, 3-[(2S,3E)-2-hydroxy-3-methyl-4-(2-methyl-4-thiazolyl)-3-butenyl]-α-methyl-, (αS,2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



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FILE 'REGISTRY' ENTERED AT 10:30:04 ON 13 AUG 2007
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L2 STRUCTURE UPLOADED
L3 2 S L1 FULL
L4 0 S L2 FULL

FILE 'CAPLUS' ENTERED AT 10:31:25 ON 13 AUG 2007
L5 1 S L3 FULL

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FULL ESTIMATED COST	5.74	350.15
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.78	-0.78

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